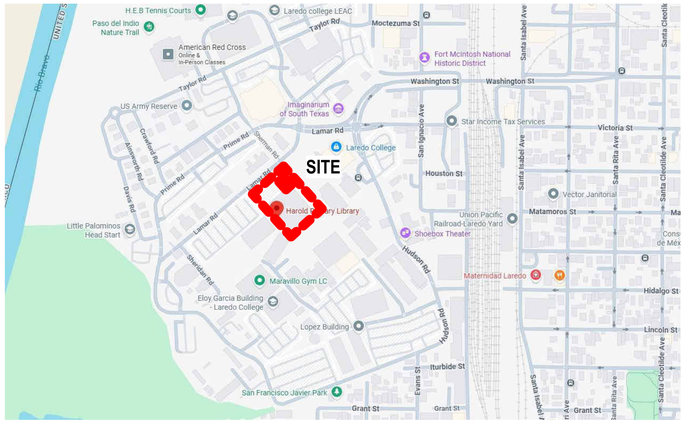
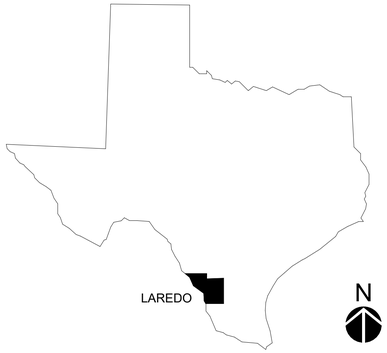


NORTH



LOCATION MAP

PROJECT DATA

PROJECT NAME: LC EXECUTIVE CONFERENCE CENTER - CATERING SUPPORT ADDITION
ADDRESS: 1 WEST END WASHINGTON ST. LAREDO, TX 78040

PROJECT DESCRIPTION: NEW CATERING SUPPORT AREA FOR LAREDO COLLEGE, TO BE LOCATED WITHIN AN ADDITION TO THE EXISTING CONFERENCE CENTER. THE SCOPE IS ANTICIPATED TO INCLUDE STORAGE CABINETRY, COUNTERTOP AREAS, WARMERS, A REFRIGERATOR, A FREEZER (FOR ICE), AND AN ICE MACHINE.
NOTE: THIS IS A CATERING STAGING AND SUPPORT ROOM. NO COOKING OCCURS IN THIS ROOM. SPACE IS USED FOR TEMPORARY HOT/COLD HOLDING OF PREPARED CATERED FOOD, AND LIMITED WAREWASHING OF CATERING EQUIPMENT/UTENSILS.

LEGAL DESCRIPTION: 202.89311 ACRES- LAREDO COMMUNITY COLLEGE CAMPUS- OLD FORT MCINTOSH
PROPERTY ID: 167449
ZONING: B-3

SHEET LIST - GENERAL AND FRONT END SHEETS

SHEET NUMBER	SHEET NAME
G-000	TITLE SHEET
G-001	CODE INFORMATION
G-002	NOTES & CONVENTIONS
G-003	ACCESSIBILITY STANDARDS
G-004	ACCESSIBILITY STANDARDS
G-005	ACCESSIBILITY STANDARDS
G-006	ACCESSIBILITY STANDARDS
G-007	TAS FLOOR PLAN

Grand total: 8

SHEET LIST - CIVIL DRAWINGS

SHEET NUMBER	SHEET NAME
C1.0	EXISTING CONDITIONS
C2.0	DEMOLITION PLAN
C3.0	DIMENSIONAL PLAN
C4.0	DETAILS
C5.0	UTILITIES PLAN
C6.0	GRADING PLAN
C7.0	STORM WATER POLLUTION PREVENTION PLAN

Grand total: 7

SHEET LIST - DEMOLITION DRAWINGS

SHEET NUMBER	SHEET NAME
AD-001	DEMOLITION PLAN

Grand total: 1

SHEET LIST - ARCHITECTURAL SITE DRAWINGS

SHEET NUMBER	SHEET NAME
AS-001	SITE PLAN
AS-010	SITE DETAILS

Grand total: 2

SHEET LIST - ARCHITECTURAL DRAWINGS

SHEET NUMBER	SHEET NAME
A-100	EXISTING CONDITIONS FLOOR PLAN
A-101	1st FLOOR PLAN
A-102	FURNITURE & EQUIPMENT PLAN
A-103	FLOOR MATERIALS PLAN & FINISH SCHEDULE
A-110	ROOF PLAN
A-120	REFLECTED CEILING PLAN
A-201	BUILDING ELEVATIONS
A-301	BUILDING SECTIONS
A-410	INTERIOR ELEVATIONS
A-430	WALL LEGEND & WALL SECTIONS
A-431	WALL SECTIONS
A-501	PLAN DETAILS
A-520	SECTION DETAILS
A-521	SECTION DETAILS
A-611	DOOR SCHEDULE & DETAILS
A-701	MILLWORK ELEVS & DETAILS

Grand total: 16

SHEET LIST - STRUCTURAL DRAWINGS

SHEET NUMBER	SHEET NAME
S001	GENERAL NOTES
S002	TYPICAL FOUNDATION DETAILS
S003	TYPICAL CMU WALL DETAILS
S004	TYPICAL METAL STUD WALL DETAILS
S101	FOUNDATION PLAN AND DETAILS
S102	FOUNDATION DETAILS
S201	FRAMING PLANS AND DETAILS

Grand total: 7

SHEET LIST - MECHANICAL DRAWINGS

SHEET NUMBER	SHEET NAME
M-000	MECHANICAL NOTES AND LEGEND
M-100	MECHANICAL FLOOR PLAN
M-200	MECHANICAL CONTROLS
M-300	MECHANICAL SCHEDULES
M-400	MECHANICAL DETAILS

Grand total: 5

SHEET LIST - ELECTRICAL DRAWINGS

SHEET NUMBER	SHEET NAME
E-000	ELECTRICAL LEGEND
ED-100	ELECTRICAL DEMOLITION FLOOR PLAN
E-100	ELECTRICAL LIGHTING FLOOR PLAN
E-200	ELECTRICAL POWER FLOOR PLAN
E-300	ELECTRICAL DETAILS
E-400	ELECTRICAL DETAILS
E-401	ELECTRICAL DETAILS

Grand total: 7

SHEET LIST - PLUMBING DRAWINGS

SHEET NUMBER	SHEET NAME
P-000	PLUMBING LEGEND
P-100	PLUMBING SEWER & VENT FLOOR PLAN
P-200	PLUMBING DOMESTIC WATER FLOOR PLAN
P-300	PLUMBING DETAILS
FP-100	FIRE PROTECTION SITE PLAN

Grand total: 5

LC Executive Conference Center - Catering Staging Addition

Laredo College

1 West End Washington St.
Laredo, TX 78040

CONSTRUCTION DOCUMENTS

BOARD MEMBERS

Esteban Rangel, Board President
Tita C. Vela, Board Vice President
Jackie Leven-Ramos, Board Secretary
Cindy Liendo, Parliamentarian
Mercurio Martinez, Jr., Trustee
Erica Benavides Garcia, Trustee
Adriana Alexander, Trustee
Lizzy Newsome, Trustee
Karina "Kari" Elizondo, Trustee
Dr. Minita Ramirez, Laredo College President

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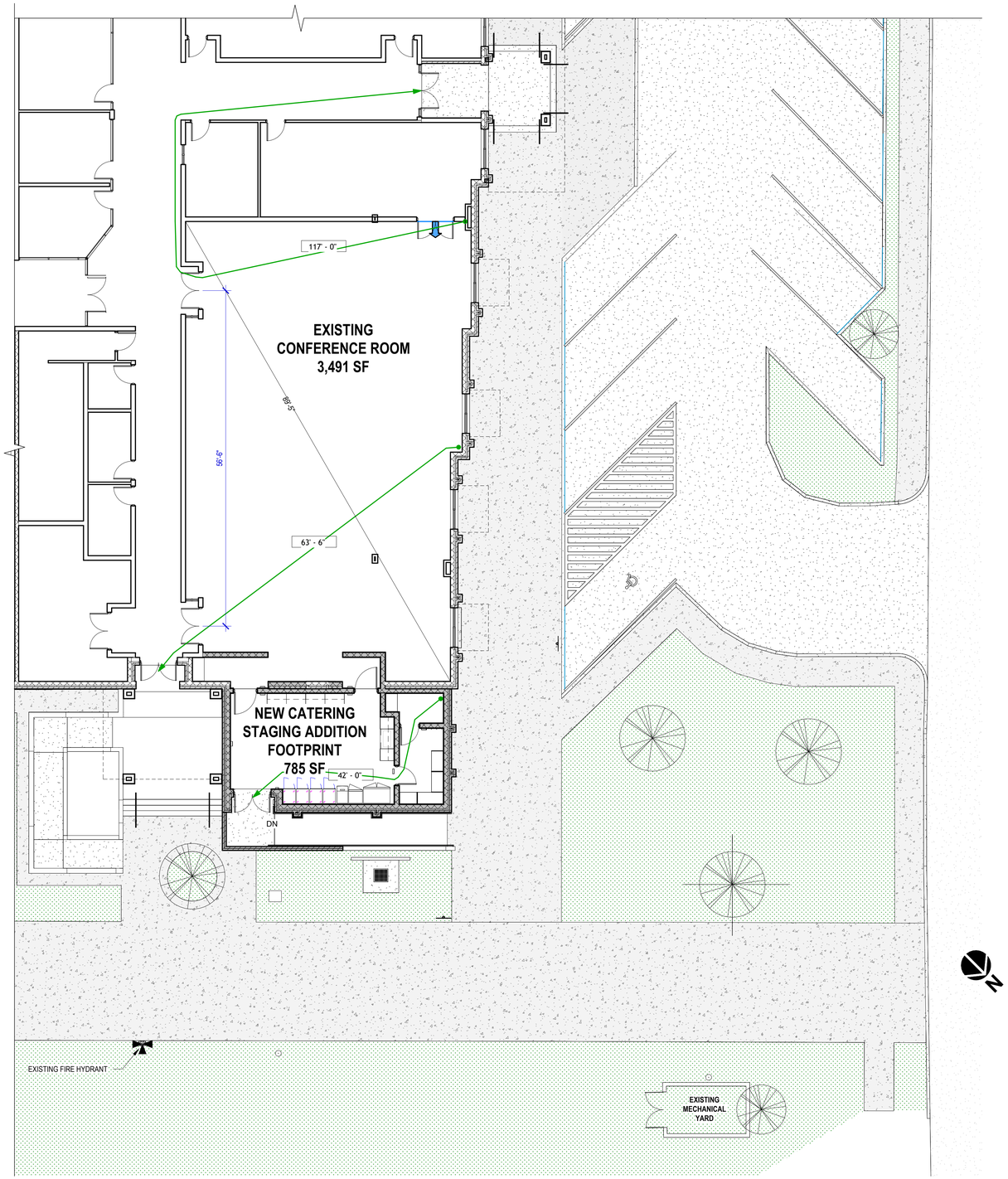
REGISTERED ARCHITECT
GUILLERMO J. CAVAZOS, JR.
20150
STATE OF TEXAS

Project number	25-14
Project Issue Date	9/16/2026
Sheet Revision #:	
Sheet Revision Date:	

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G-000
TITLE SHEET

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LC Executive Conference Center - Catering Staging Addition
16/09/2026 11:33:14 a. m.



1 **SITE PLAN Copy 1**
1" = 10'-0"

BUILDING CODE ANALYSIS

PROJECT DESCRIPTION: NEW CATERING SUPPORT AREA FOR LAREDO COLLEGE, TO BE LOCATED WITHIN AN ADDITION TO THE EXISTING YEARY LIBRARY BUILDING. THE SCOPE IS ANTICIPATED TO INCLUDE STORAGE CABINETRY, COUNTER/PREP AREAS, WARMERS, A REFRIGERATOR, A FREEZER (FOR ICE), AND AN ICE MACHINE.

APPLICABLE BUILDING CODES:
2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 INTERNATIONAL ELECTRICAL CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL FIRE CODE
2012 TEXAS ACCESSIBILITY STANDARDS
2021 INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE

OCCUPANCY GROUP CLASSIFICATION: Group B (Business) — New Catering Staging Addition, classified as an Accessory Occupancy to the adjacent Group A-2 (Assembly) Conference Room per IBC 508.2.

MIXED USE OCCUPANCY SEPARATION: N/A — Catering Staging Addition (785 SF) qualifies as an Accessory Occupancy to the adjacent Group A-2 assembly space per IBC 508.2 (785 SF ÷ 74,470 SF story area = 1.05% < 10% per 508.2.1; area also less than Table 506.2 allowable area for Group B). No separation required per 508.2.2

CONSTRUCTION TYPE CLASSIFICATION: TYPE II-B (NON-COMBUSTIBLE)

AUTOMATIC SPRINKLER SYSTEM: NFPA 13 SPRINKLER SYSTEM

AUTO SPRINKLER INCREASE: Yes

ACTUAL BUILDING AREA: New proposed addition: **785 sf**

FIRE RESISTANCE RATING REQUIREMENTS:

PRIMARY STRUCTURE FRAME:	0 HR
BEARING WALLS (EXT & INT):	0 HR
NONBEARING WALLS & PARTITIONS (EXT):	0 HR
NONBEARING WALLS & PARTITIONS (INT):	0 HR
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS:	0 HR
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS:	0 HR

ZONING INFORMATION

ZONE = B-3

LEGAL DESCRIPTION
202.89311 ACRES- LAREDO COMMUNITY COLLEGE CAMPUS- OLD FORT MCINTOSH
ADDRESS: 1 W END WASHINGTON ST LAREDO TX US 78040

FRONT YARD SETBACK: n/a
SIDE YARD SETBACK (CORNER): n/a
REAR YARD SETBACK: n/a

ENVELOPE REQUIREMENTS

CLIMATE ZONE 2 PER IECC 2021
PER TABLE C402.1.3

• ROOF
REQUIRED: (Above roof deck) R-25ci
PROVIDED = 2 LAYERS OF R-12.5 RIGID INSULATION BOARD ABOVE ROOF DECK.

• WALLS ABOVE GRADE
REQUIRED: (Mass) R-5.7ci
PROVIDED = R-13 (2.5 in) RIGID INSULATION BOARD WITH BRICK VENEER.

MEANS OF EGRESS REQUIREMENTS

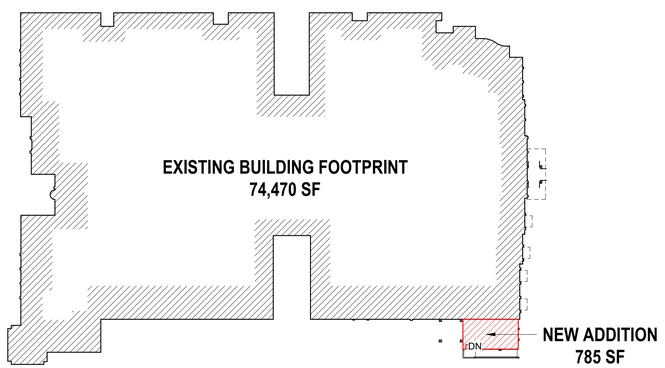
PER IBC 2021 TABLE 1004.5

• EXISTING CONFERENCE ROOM
Occupant Load Factor (IBC Table 1004.5, Assembly without fixed seats — Unconcentrated, tables and chairs): 15 net SF/occupant
Net Floor Area: 3,485 SF (excludes wall thickness, doors, and built-in millwork)
Occupant Load: 3,485 ÷ 15 = 232.3 → **233 occupants**

Required Number of Exits / Exit Access Doorways (IBC Table 1006.3.1, occupant load 1 –500): **2**
Provided: **2** (two existing double-swing exit door sets)
Required Egress Width (IBC Table 1005.1, sprinklered — 0.15 in/occupant): 233 × 0.15 = **34.95"**
Provided (Existing): **144"** (two 6'-0" double-swing exit door sets)
Exit Access Travel Distance Limit (Table 1017.2, Group A, sprinklered NFPA 13): **250 ft max**

• CATERING ADDITION
Occupant Load Factor (IBC Table 1004.5, Business areas): 150 gross SF/occupant
Gross Floor Area: 785 SF
Occupant Load: 785 ÷ 150 = 5.23 → **6 occupants**

Required Number of Exits/Exit Access Doorways (Table 1006.3.1, occupant load 1 –49): **1**
Required Egress Width (Table 1005.1, sprinklered — 0.15 in/occupant): 6 × 0.15 = **0.9"**
Provided: **1 is required at this occupant load; 3 are provided.**
Travel Distance Limit (Table 1017.2, Group B, sprinklered): **300 ft max**



2 **Overall Floor Plan**
1" = 50'-0"

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LC Executive Conference Center - Catering Staging Addition

Laredo College
1 West End Washington St.
Laredo, TX 78040

CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT GUILLERMO J. CAVAZOS, JR. 20150 STATE OF TEXAS

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No.	Description	Date

KEY PLAN

CODE INFORMATION

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

G-001

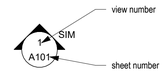
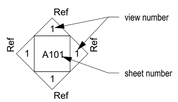
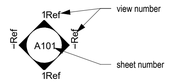
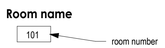
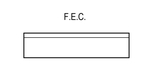
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ABBREVIATIONS

@	AT	INV	INVERT
A/C	AIR CONDITIONING	JAN	JANITOR
ABV	ABOVE	JOC	JOB ORDER CONTRACTOR
ACOUS	ACOUSTIC(AL)	JT	JOINT
AD	AREA DRAIN	LAM	LAMINATED
AFF	ABOVE FINISH FLOOR	LAV	LAVATORY
ALT	ALTERNATE	LP	LOW POINT
ALUM	ALUMINUM	MAX	MAXIMUM
ANOD	ANODIZED	MB	MARKER BOARD
AP	ACCESS PANEL	MECH	MECHANICAL
APPROX	APPROXIMATE	MFGR	MANUFACTURE/MANUFACTURER
AVC	AUDIO VISUAL CONSOLE	MIN	MINIMUM
BD	BOARD	MIR	MIRROR
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	ML	MODULE LINE/METAL LATH
BM	BEAM	MO	MASONRY OPENING
BRG	BEARING	MOD	MODULE/MODULAR
BRJ	BRICK RELIEF JOINT	MONO	MONOLITHIC
BRZ	BRONZE	MP	MASONRY PARTITION
BYO	BY OWNER	MT	METAL THRESHOLD
CAB	CABINET	MTL	METAL
CB	CATCH BASIN	MWP	MEMBRANE WATERPROOFING
CEM	CEMENT	NIC	NOT IN CONTRACT
CER	CERAMIC	NTS	NOT TO SCALE
CHBD	CHALKBOARD	O/	ON TO OF, OVER
CJ	CONTROL JOINT	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OPNG	OPENING
CLO	CLOSET	OPP	OPPOSITE
CMU	CONCRETE MASONRY UNIT	OV	OVERHEAD
CO	CASED OPENING	PL	PLATE
COL	COLUMN	PLAM	PLASTIC LAMINATE
CONC	CONCRETE	PLAS	PLASTER
CONT	CONTINUOUS	PLYWD	PLYWOOD
CONTR	CONTRACT(OR)	PS	PROJECTION SCREEN
CPT	CARPET	PTD	PAINTED
CT	CARPET TILE	PTN	PARTITION
DET	DETAIL	R	RISER
DF	DRYWALL FURRING	R/A	RETURN AIR
DIA	DIAMETER	RD	ROOF DRAIN
DIM	DIMENSION	RE.	REF REFERENCE
DN	DOWN	REINF	REINFORCE(MENT)
DP	DRYWALL PARTITION	REQ'D	REQUIRED
DR	DOOR	RM	ROOM
DS	DOWNSPOUT	RTU	ROOFTOP UNIT
DWG	DRAWING	SCHED	SCHEDULE(D)
EA	EACH	SF	SAND FINISH
EAV	ELECTRICAL-AUDIO/VISUAL	SHLVS	SHELVES
EDF	ELECTRIC DRINKING FOUNTAIN	SHT	SHEET
EJ	EXPANSION JOINT	SIM	SIMILAR
EL	ELEVATION	SK	SINK
ELEC	ELECTRICAL	SM	SMOOTH
ELEV	ELEVATOR OR ELEVATION	SPEC	SPECIFICATIONS/SPECIFIED
EP	ELECTRICAL PANEL	SQ	SQUARE
EQ	EQUAL	SS	SERVICE SINK
EQUIP	EQUIPMENT	ST STL	STAINLESS STEEL
EXIST	EXISTING	STD	STANDARD
EXP	EXPANSION	STL	STEEL
EXT	EXTERIOR	STOR	STORAGE
FD	FLOOR DRAIN	STRUCT	STRUCTURE/STRUCTURAL
FEB	FIRE EXTINGUISHER W/BRACKET	SUSP	SUSPENDED
FEC	FIRE EXTINGUISHER CABINET	TA	TOILET ACCESSORY
FHC	FIRE HOSE CABINET	TB	TACKBOARD
FIN	FINISH(ED)	TC	TOP OF CURB
FL	FLOOR	TEMP	TEMPERED
FM	FLOOR MAT	THK	THICK
FR	FRAME	TKBD	TACKBOARD
FTVM	FUTURE TV MONITOR	TRANS	TRANSPARENT
FURR	FURRED	TVM	TV MONITOR
FV	FIELD VERIFY	TVP	TV PROJECTOR
GA	GAGE/GAUGE	TYP	TYPICAL
GALV	GALVANIZED	U	URINAL
GC	GENERAL CONTRACTOR	U.N.O.	UNLESS NOTED OTHERWISE
GL	GLASS	UNFIN	UNFINISHED
GR	GROUND ROD ACCESS BOX	UV	UNDERFLOOR VENT
GST	GLAZED CERAMIC TILE	VC	VALVE CABINET
GWB	GYPSUM WALL BOARD	VERT	VERTICAL
GYP	GYPSUM	VIN	VINYL
HC	HANDICAP	VP	VISION PANEL
HDW	HARDWARE	W/	WITH
HM	HOLLOW METAL	W/O	WITHOUT
HORIZ	HORIZONTAL	WC	WATER CLOSET
HP	HIGH POINT	WD	WOOD
HT	HEIGHT	WDW	WINDOW
ID	INSIDE DIMENSION	WOOJ	WORK OUT ON JOB
INSUL	INSULATION	WP	WATERPROOFING
INT	INTERIOR	WWF	WELDED WIRE FABRIC

SYMBOL LEGEND

BUILDING SECTION MARKER	
EXTERIOR ELEVATION MARKER	
INTERIOR ELEVATION MARKER	
ROOM TAG	
DOOR TAG	
WINDOW TAG	
SPECIALTY EQUIP. TAG	
CURTAIN WALL/STOREFRONT TAG	
WALL TAG	
SIGNAGE TAG	
CLASSROOM EQUIPMENT TAG	
FIRE EXTINGUISHER BRACKET	
FIRE EXTINGUISHER CABINET	

GENERAL ARCHITECTURAL NOTES

1. DO NOT SCALE THE DRAWINGS.
2. GENERAL CONTRACTOR TO VERIFY FIELD CONDITIONS PRIOR TO COMMENCEMENT OF EACH PORTION OF THE WORK.
3. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY:WHAT IS REQUIRED BY ONE IS AS BINDING AS IF REQUIRED BY ALL. THE CONTRACTOR SHALL COORDINATE ALL PORTIONS OF THE WORK AS DESCRIBED IN THE CONTRACT DOCUMENTS. NOTIFY THE ARCHITECT FOR RESOLUTION OF ALL DISCREPANCIES PRIOR TO CONSTRUCTION.
4. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
5. "FLOOR LINE" REFERS TO TOP OF CONCRETE SLABS. FINISH FLOORING IS INSTALLED ABOVE THE FLOOR LINE. FOR DEPRESSED FLOORS AND CURBS, SEE STRUCTURAL DRAWINGS.
6. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
7. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF STUD (WALL) TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
8. AT SECURITY WALLS, FULL HEIGHT PARTITIONS SHALL BE SEALED BOTH SIDES WITH ACOUSTIC SEALANT, TOP, BOTTOM, INTERSECTION, DOOR FRAMES, GLAZED OPENING FRAMES, AND ALL OTHER PENETRATIONS.
9. LINE OF EXISTING GRADES, AS SHOWN ON THE BUILDING ELEVATIONS AND SECTIONS ARE APPROXIMATE.
10. VERIFY ALL ROUGH-IN DIMENSIONS FOR EQUIPMENT PROVIDED IN THIS CONTRACT, OR BY OTHERS.
11. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER CATEGORIES OR DRAWINGS FOR ADDITIONAL NOTES.
12. VERIFY SIZE/LOCATION/FINISH/FIRE-RATING, ETC, AND PROVIDE COMPLETE ALL REQUIRED OPENINGS THROUGH FLOORS AND WALLS, ACCESS DOORS, FURRING, CURBS, ANCHORS AND INSERTS. PROVIDE ALL BASES AND BLOCKING REQUIRED FOR ACCESSORIES, MECHANICAL, ELECTRICAL AND OTHER EQUIPMENT.
13. ALL PENETRATIONS AND OPENINGS SHALL MEET WALL ASSEMBLY FIRE RATINGS.
14. BOXES LOCATED ON OPPOSITE SIDE OF FIRE RATED WALLS & SECURITY WALLS SHALL BE SEPARATED BY A MIN. HORIZONTAL DISTANCE OF 36".
15. REFER TO FINISH SCHEDULES AND COLOR LISTS FOR WALL FINISH DESIGNATIONS.
16. REFER TO GENERAL STRUCTURAL NOTES & PROJECT SPECIFICATIONS.
17. SEE STRUCTURAL GENERAL NOTES FOR MINIMUM STUD DEPTH, THICKNESS, FLANGE WIDTH AND SPACING.
18. REFER TO STRUCTURAL DRAWINGS FOR ALL REINFORCING INFORMATION.
19. AT ALL PENETRATIONS AND INTERSECTIONS OF FIRE-RATED PARTITIONS, PROVIDE FIRE SEALANT AND/OR FIRESTOPPING TO MAINTAIN CONTINUITY OF PARTITION RATING.
20. MAXIMUM SPACING BETWEEN VERTICAL BRICK VENEER CONTROL JOINTS TO BE 20'-0" O.C. @ EXTERIOR WALLS & 20'-0" @ O.C. INTERIOR WALLS, TYPICAL UNLESS NOTED OTHERWISE.
21. PRIOR TO BEGINNING METAL STUD PARTITIONS, LOCATE WALLS WITH CHALK-LINES. IF QUESTIONS OR CONCERNS ARISE, BRING TO ARCHITECTS ATTENTION.
22. WHEN FINISH OR COLOR IS DESIGNATED "COLOR BY ARCHITECT", COLOR SHALL BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.

CAVAZOS ARCHITECTS
9114 MCPHERSON RD. STE 2501
LAREDO, TX 78045
P: (956) 724-8123
memo@cavazosarch.com

LC Executive Conference Center - Catering Staging Addition

Laredo College
1 West End Washington St.
Laredo, TX 78040

CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT GUILLERMO J. CAVAZOS JR. 20150 STATE OF TEXAS

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No.	Description	Date

KEY PLAN

NOTES & CONVENTIONS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

G-002

Scale: As indicated

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604.5 Grab Bars. Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.
3. In detention or correction facilities, grab bars shall not be required to be installed in housing or holding cells that are specially designed without protrusions for purposes of suicide prevention.

Advisory 604.5 Grab Bars Exception 2. Reinforcement must be sufficient to permit the installation of rear and side wall grab bars that fully meet all accessibility requirements including, but not limited to, required length, installation height, and structural strength.

604.5.1 Side Wall. The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

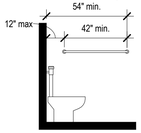


Figure 604.5.1 Side Wall Grab Bar at Water Closets

604.5.2 Rear Wall. The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

EXCEPTIONS:
1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to the water closet.
2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of the rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

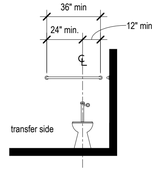


Figure 604.5.2 Rear Wall Grab Bar at Water Closets

604.6 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

Advisory 604.6 Flush Controls. If plumbing valves are located directly behind the toilet seat, flush valves and related plumbing can cause injury or imbalance when a person leans back against them. To prevent causing injury or imbalance, the plumbing can be located behind walls or to the side of the toilet; or if approved by the local authority having jurisdiction, provide a toilet seat lid.

604.7 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

Advisory 604.7 Dispensers. If toilet paper dispensers are installed above the side wall grab bar, the outlet of the toilet paper dispenser must be 48 inches (1220 mm) maximum above the finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor.

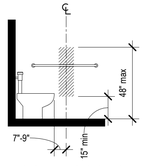


Figure 604.7 Dispenser Outlet Location

604.8 Toilet Compartments. Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

604.8.1 Wheelchair Accessible Compartments. Wheelchair accessible compartments shall comply with 604.8.1.

604.8.1.1 Size. Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

Advisory 604.8.1.1 Size. The minimum space required in toilet compartments is provided so that a person using a wheelchair can maneuver into position at the water closet. This space cannot be obstructed by baby changing tables or other fixtures or conveniences, except as specified at 604.3.2 (Overlap). If toilet compartments are to be used to house fixtures other than those associated with the water closet, they must be designed to exceed the minimum space requirements. Convenience fixtures such as baby changing tables must also be accessible to people with disabilities as well as to other users. Toilet compartments that are designed to meet, and not exceed, the minimum space requirements may not provide adequate space for maneuvering into position at a baby changing table.

604.8.1.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.1.3 Approach. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.8.1.4 Toe Clearance. The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

EXCEPTION: Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floormounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

604.8.1.5 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

604.8.2 Ambulatory Accessible Compartments. Ambulatory accessible compartments shall comply with 604.8.2.

604.8.2.1 Size. Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

604.8.2.2 Doors. Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be selfclosing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

604.8.2.3 Grab Bars. Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

604.8.3 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604.9 Water Closets and Toilet Compartments for Children's Use. Water closets and toilet compartments for children's use shall comply with 604.9.

604.9.1 Location. The water closet shall be located with a wall or partition to the rear and to one side. The centerline of the water closet shall be 12 inches (305 mm) minimum and 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Compartments shall be arranged for left-hand or right-hand approach to the water closet.

604.9.2 Clearance. Clearance around a water closet shall comply with 604.3.

604.9.3 Height. The height of water closets shall be 11 inches (280 mm) minimum and 17 inches (430 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

604.9.4 Grab Bars. Grab bars for water closets shall comply with 604.5.

604.9.5 Flush Controls . Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.2 and 309.4 and shall be installed 36 inches (915 mm) maximum above the finish floor. Flush controls shall be located on the open side of the water closet except in ambulatory accessible compartments complying with 604.8.2.

604.9.6 Dispensers. Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 14 inches (355 mm) minimum and 19 inches (485 mm) maximum above the finish floor. There shall be a clearance of 1 1/2 inches (38 mm) minimum below the grab bar. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

604.9.7 Toilet Compartments. Toilet compartments shall comply with 604.8.

605 Urinals

605.1 General. Urinals shall comply with 605.
Advisory 605.1 General. Stall-type urinals provide greater accessibility for a broader range of persons, including people of short stature.

605.2 Height and Depth. Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

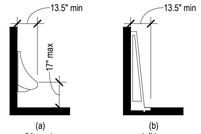


Figure 604.2 Height and Depth of Urinals

605.3 Clear Floor Space. A clear floor or ground space complying with 305 positioned for forward approach shall be provided.

605.4 Flush Controls. Flush controls shall be hand operated or automatic. Hand operated flush controls shall comply with 309.

606 Lavatories and Sinks

606.1 General. Lavatories and sinks shall comply with 606.

Advisory 606.1 General. If soap and towel dispensers are provided, they must be located within the reach ranges specified in 308. Locate soap and towel dispensers so that they are conveniently usable by a person at the accessible lavatory.

606.2 Clear Floor Space. A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

EXCEPTIONS:
1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.
2. A lavatory in a toilet room or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.
3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:
(a) the cabinetry can be removed without removal or replacement of the fixture;
(b) the finish floor extends under the cabinetry; and
(c) the walls behind and surrounding the cabinetry are finished.
4. A knee clearance of 24 inches (610 mm) minimum above the finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.
5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.
6. The dip of the overflow shall not be considered in determining knee and toe clearances.
7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

606.3 Height. Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

EXCEPTIONS:
1. A lavatory in a toilet or bathing facility for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 606.3.
2. In residential dwelling unit kitchens, sinks that are adjustable to variable heights, 29 inches (735 mm) minimum and 36 inches (915 mm) maximum, shall be permitted where rough-in plumbing permits connections of supply and drain pipes for sinks mounted at the height of 29 inches (735 mm).

606.4 Faucets. Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

606.5 Exposed Pipes and Surfaces. Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks

607 Bathtubs

607.1 General. Bathtubs shall comply with 607.

607.2 Clearance. Clearance in front of bathtubs shall extend the length of the bathtub and shall be 30 inches (760 mm) wide minimum. A lavatory complying with 606 shall be permitted at the control end of the clearance. Where a permanent seat is provided at the head end of the bathtub, the clearance shall extend 12 inches (305 mm) minimum beyond the wall at the head end of the bathtub.

607.3 Seat. A permanent seat at the head end of the bathtub or a removable in-tub seat shall be provided. Seats shall comply with 610.

607.4 Grab Bars. Grab bars for bathtubs shall comply with 609 and shall be provided in accordance with 607.4.1 or 607.4.2.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a bathtub located in a bathing facility for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 607.4.
2. In residential dwelling units, grab bars shall not be required to be installed in bathtubs located in bathing facilities provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 607.4.

607.4.1 Bathtubs With Permanent Seats. For bathtubs with permanent seats, grab bars shall be provided in accordance with 607.4.1.

607.4.1.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and the other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be installed 15 inches (380 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.1.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2 Bathtubs Without Permanent Seats. For bathtubs without permanent seats, grab bars shall comply with 607.4.2.

607.4.2.1 Back Wall. Two grab bars shall be installed on the back wall, one located in accordance with 609.4 and other located 8 inches (205 mm) minimum and 10 inches (255 mm) maximum above the rim of the bathtub. Each grab bar shall be 24 inches (610 mm) long minimum and shall be installed 24 inches (610 mm) maximum from the head end wall and 12 inches (305 mm) maximum from the control end wall.

607.4.2.2 Control End Wall. A grab bar 24 inches (610 mm) long minimum shall be installed on the control end wall at the front edge of the bathtub.

607.4.2.3 Head End Wall. A grab bar 12 inches (305 mm) long minimum shall be installed on the head end wall at the front edge of the bathtub.

607.5 Controls. Controls, other than drain stoppers, shall be located on an end wall. Controls shall be between the bathtub rim and grab bar, and between the open side of the bathtub and the centerline of the width of the bathtub. Controls shall comply with 309.4.

607.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Bathtub shower spray units shall deliver water that is 120°F (49°C) maximum.

Advisory 607.6 Shower Spray Unit and Water. Ensure that hand-held shower spray units are capable of delivering water pressure substantially equivalent to fixed shower heads.

607.7 Bathtub Enclosures. Enclosures for bathtubs shall not obstruct controls, faucets, shower and spray units or obstruct transfer from wheelchairs onto bathtub seats or into bathtubs. Enclosures on bathtubs shall not have tracks installed on the rim of the open face of the bathtub.

608 Shower Compartments

608.1 General. Shower compartments shall comply with 608.
Advisory 608.1 General. Shower stalls that are 60 inches (1525 mm) wide and have no curb may increase the usability of a bathroom because the shower area provides additional maneuvering space.

608.2 Size and Clearances for Shower Compartments. Shower compartments shall have sizes and clearances complying with 608.2.

608.2.1 Transfer Type Shower Compartments. Transfer type shower compartments shall be 36 inches (915 mm) by 36 inches (915 mm) clear inside dimensions measured at the center points of opposing sides and shall have a 36 inch (915 mm) wide minimum entry on the face of the shower compartment. Clearance of 36 inches (915 mm) wide minimum by 48 inches (1220 mm) long minimum measured from the control wall shall be provided.

608.2.2 Standard Roll-In Type Shower Compartments. Standard roll-in type shower compartments shall be 30 inches (760 mm) wide minimum by 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides and shall have a 60 inches (1525 mm) wide minimum entry on the face of the shower compartment.

608.2.2.1 Clearance. A 30 inch (760 mm) wide minimum by 60 inch (1525 mm) long minimum clearance shall be provided adjacent to the open face of the shower compartment.

EXCEPTION: A lavatory complying with 606 shall be permitted on one 30 inch (760 mm) wide minimum side of the clearance provided that it is not on the side of the clearance adjacent to the controls or, where provided, not on the side of the clearance adjacent to the shower seat.

608.2.3 Alternate Roll-In Type Shower Compartments. Alternate roll-in type shower compartments shall be 36 inches (915 mm) wide and 60 inches (1525 mm) deep minimum clear inside dimensions measured at center points of opposing sides. A 36 inch (915 mm) wide minimum entry shall be provided at one end of the long side of the compartment.

608.3 Grab Bars. Grab bars shall comply with 609 and shall be provided in accordance with 608.3. Where multiple grab bars are used, required horizontal grab bars shall be installed at the same height above the finish floor.

EXCEPTIONS:
1. Grab bars shall not be required to be installed in a shower located in a bathing facility for a single occupant accessed only through a private office, and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 608.3.
2. In residential dwelling units, grab bars shall not be required to be installed in showers located in bathing facilities provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 608.3.

608.3.1 Transfer Type Shower Compartments. In transfer type compartments, grab bars shall be provided across the control wall and back wall to a point 18 inches (455 mm) from the control wall.

608.3.2 Standard Roll-In Type Shower Compartments. Where a seat is provided in standard roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall opposite the seat. Grab bars shall not be provided above the seat. Where a seat is not provided in standard roll-in type shower compartments, grab bars shall be provided on three walls. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

608.3.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, grab bars shall be provided on the back wall and the side wall farthest from the compartment entry. Grab bars shall not be provided above the seat. Grab bars shall be installed 6 inches (150 mm) maximum from adjacent walls.

608.4 Seats. A folding or non-folding seat shall be provided in transfer type shower compartments. A folding seat shall be provided in roll-in type showers required in transient lodging guest rooms with mobility features complying with 806.2. Seats shall comply with 610.

EXCEPTION: In residential dwelling units, seats shall not be required in transfer type shower compartments provided that reinforcement has been installed in walls so as to permit the installation of seats complying with 608.4.

608.5 Controls. Controls, faucets, and shower spray units shall comply with 309.4.

608.5.1 Transfer Type Shower Compartments. In transfer type shower compartments, the controls, faucets, and shower spray unit shall be installed on the side wall opposite the seat 38 inches (965 mm) minimum and 48 inches (1220 mm) maximum above the shower floor and shall be located on the control wall 15 inches (380 mm) maximum from the centerline of the seat toward the shower opening.

608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be installed on the back wall adjacent to the seat wall and shall be located 27 inches (685 mm) maximum from the seat wall.

Advisory 608.5.2 Standard Roll-In Type Shower Compartments. In standard roll-in type showers without seats, the shower head and operable parts can be located on any of the three walls of the shower without adversely affecting accessibility.

608.5.3 Alternate Roll-In Type Shower Compartments. In alternate roll-in type shower compartments, the controls, faucets, and shower spray unit shall be located above the grab bar, but no higher than 48 inches (1220 mm) above the shower floor. Where a seat is provided, the controls, faucets, and shower spray unit shall be located on the side wall adjacent to the seat 27 inches (685 mm) maximum from the side wall behind the seat or shall be located on the back wall opposite the seat 15 inches (380 mm) maximum, left or right, of the centerline of the seat. Where a seat is not provided, the controls, faucets, and shower spray unit shall be installed on the side wall farthest from the compartment entry.

608.6 Shower Spray Unit and Water. A shower spray unit with a hose 59 inches (1500 mm) long minimum that can be used both as a fixed-position shower head and as a hand-held shower shall be provided. The shower spray unit shall have an on/off control with a non-positive shut-off. If an adjustable-height shower head on a vertical bar is used, the bar shall be installed so as not to obstruct the use of grab bars. Shower spray units shall deliver water that is 120°F (49°C) maximum.

EXCEPTION: A fixed shower head located at 48 inches (1220 mm) maximum above the shower finish floor shall be permitted instead of a hand-held spray unit in facilities that are not medical care facilities, long-term care facilities, transient lodging guest rooms, or residential dwelling units.

Advisory 608.6 Shower Spray Unit and Water. Ensure that hand-held shower spray units are capable of delivering water pressure substantially equivalent to fixed shower heads.
608.7 Thresholds. Thresholds in roll-in type shower compartments shall be 1/2 inch (13 mm) high maximum in accordance with 303. In transfer type shower compartments, thresholds 1/2 inch (13 mm) high maximum shall be beveled, rounded, or vertical.

EXCEPTION: A threshold 2 inches (51 mm) high maximum shall be permitted in transfer type shower compartments in existing facilities where provision of a 1/2 inch (13 mm) high threshold would disturb the structural reinforcement of the floor slab.

608.8 Shower Enclosures. Enclosures for shower compartments shall not obstruct controls, faucets, and shower spray units or obstruct transfer from wheelchairs onto shower seats.

609 Grab Bars

609.1 General. Grab bars in toilet facilities and bathing facilities shall comply with 609.

609.2 Cross Section . Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

609.2.1 Circular Cross Section. Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

609.2.2 Non-Circular Cross Section. Grab bars with non-circular cross sections shall have a crosssection dimension of 2 inches (51 mm) maximum and a perimeter dimension of 4 inches (100 mm) minimum and 4.8 inches (120 mm) maximum.

609.3 Spacing. The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

EXCEPTION: The space between the grab bars and shower controls, shower fittings, and other grab bars above shall be permitted to be 1 1/2 inches (38 mm) minimum.

609.4 Position of Grab Bars. Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

609.5 Surface Hazards. Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

609.6 Fittings. Grab bars shall not rotate within their fittings.

609.7 Installation. Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

609.8 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the grab bar, fastener, mounting device, or supporting structure.

610 Seats

610.1 General. Seats in bathtubs and shower compartments shall comply with 610.

610.2 Bathtub Seats. The top of bathtub seats shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. The depth of a removable in-tub seat shall be 15 inches (380 mm) minimum and 16 inches (405 mm) maximum. The seat shall be capable of secure placement. Permanent seats at the head end of the bathtub shall be 15 inches (380 mm) deep minimum and shall extend from the back wall to or beyond the outer edge of the bathtub.

610.3 Shower Compartment Seats. Where a seat is provided in a standard roll-in shower compartment, it shall be a folding type, shall be installed on the side wall adjacent to the controls, and shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. Where a seat is provided in an alternate roll-in type shower compartment, it shall be a folding type, shall be installed on the front wall opposite the back wall, and shall extend from the adjacent side wall to a point within 3 inches (75 mm) of the compartment entry. In transfer-type showers, the seat shall extend from the back wall to a point within 3 inches (75 mm) of the compartment entry. The top of the seat shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum above the bathroom finish floor. Seats shall comply with 610.3.1 or 610.3.2.

610.3.1 Rectangular Seats. The rear edge of a rectangular seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The side edge of the seat shall be 1 1/2 inches (38 mm) maximum from the adjacent wall.

610.3.2 L-Shaped Seats. The rear edge of an L-shaped seat shall be 2 1/2 inches (64 mm) maximum and the front edge 15 inches (380 mm) minimum and 16 inches (405 mm) maximum from the seat wall. The rear edge of the "L" portion of the seat shall be 1 1/2 inches (38 mm) maximum from the wall and the front edge shall be 14 inches (355 mm) minimum and 15 inches (380 mm) maximum from the wall. The end of the "L" shall be 22 inches (560 mm) minimum and 23 inches maximum (585 mm) from the main seat wall.

610.4 Structural Strength. Allowable stresses shall not be exceeded for materials used when a vertical or horizontal force of 250 pounds (1112 N) is applied at any point on the seat, fastener, mounting device, or supporting structure.

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LC Executive Conference Center - Catering Staging Addition

Laredo College
1 West End Washington St.
Laredo, TX 78040

CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT
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20150
STATE OF TEXAS

NOTES:
DO NOT SCALE DRAWINGS.
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No.	Description	Date

KEY PLAN

ACCESSIBILITY STANDARDS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

G-003

Scale: 1/4" = 1'-0"

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302 Floor or Ground Surfaces

302.1 General. Floor and ground surfaces shall be stable, firm, and slip resistant and shall comply with 302.

EXCEPTIONS:
1. Within animal containment areas, floor and ground surfaces shall not be required to be stable, firm, and slip resistant.
2. Areas of sport activity shall not be required to comply with 302.

Advisory 302.1 General. A stable surface is one that remains unchanged by contaminants or applied force, so that when the contaminant or force is removed, the surface returns to its original condition. A firm surface resists deformation by either indentations or particles moving on its surface. A slipresistant surface provides sufficient frictional counterforce to the forces exerted in walking to permit safe ambulation.

302.2 Carpet. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. Pile height shall be 1/2 inch (13 mm) maximum. Exposed edges of carpet shall be fastened to floor surfaces and shall have trim on the entire length of the exposed edge. Carpet edge trim shall comply with 303.

Advisory 302.2 Carpet. Carpets and permanently affixed mats can significantly increase the amount of force (roll resistance) needed to propel a wheelchair over a surface. The firmer the carpeting and backing, the lower the roll resistance. A pile thickness up to 1/2 inch (13 mm) (measured to the backing, cushion, or pad) is allowed, although a lower pile provides easier wheelchair maneuvering. If a backing, cushion or pad is used, it must be firm. Preferably, carpet pad should not be used because the soft padding increases roll resistance.

302.3 Openings. Openings in floor or ground surfaces shall not allow passage of a sphere more than 1/2 inch (13 mm) diameter except as allowed in 407.4.3, 409.4.3, 410.4, 810.5.3 and 810.10. Elongated openings shall be placed so that the long dimension is perpendicular to the dominant direction of travel.

303 Changes in Level

303.1 General. Where changes in level are permitted in floor or ground surfaces, they shall comply with 303.

EXCEPTIONS:
1. Animal containment areas shall not be required to comply with 303.
2. Areas of sport activity shall not be required to comply with 303.

303.2 Vertical. Changes in level of 1/4 inch (6.4 mm) high maximum shall be permitted to be vertical. Figure 303.2 Vertical Change in Level

303.3 Beveled. Changes in level between 1/4 inch (6.4 mm) high minimum and 1/2 inch (13 mm) high maximum shall be beveled with a slope not steeper than 1:2.

Advisory 303.3 Beveled. A change in level of 1/2 inch (13 mm) is permitted to be 1/4 inch (6.4 mm) vertical plus 1/4 inch (6.4 mm) beveled. However, in no case may the combined change in level exceed 1/2 inch (13 mm). Changes in level exceeding 1/2 inch (13 mm) must comply with 405 (Ramps) or 406 (Curb Ramps).

303.4 Ramps. Changes in level greater than 1/2 inch (13 mm) high shall be ramped, and shall comply with 405 or 406.

401 General

401.1 Scope. The provisions of Chapter 4 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

402 Accessible Routes

402.1 General. Accessible routes shall comply with 402.

402.2 Components. Accessible routes shall consist of one or more of the following components: walking surfaces with a running slope not steeper than 1:20, doorways, ramps, curb ramps excluding the flared sides, elevators, and platform lifts. All components of an accessible route shall comply with the applicable requirements of Chapter 4.

Advisory 402.2 Components. Walking surfaces must have running slopes not steeper than 1:20, see 403.3. Other components of accessible routes, such as ramps (405) and curb ramps (406), are permitted to be more steeply sloped.

403 Walking Surfaces

403.1 General. Walking surfaces that are a part of an accessible route shall comply with 403.

403.2 Floor or Ground Surface. Floor or ground surfaces shall comply with 302.

403.3 Slope. The running slope of walking surfaces shall not be steeper than 1:20. The cross slope of walking surfaces shall not be steeper than 1:48.

403.4 Changes in Level. Changes in level shall comply with 303.

403.5 Clearances. Walking surfaces shall provide clearances complying with 403.5.

EXCEPTION: Within employee work areas, clearances on common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

403.5.1 Clear Width. Except as provided in 403.5.2 and 403.5.3, the clear width of walking surfaces shall be 36 inches (915 mm) minimum.

EXCEPTION: The clear width shall be permitted to be reduced to 32 inches (815 mm) minimum for a length of 24 inches (610 mm) maximum provided that reduced width segments are separated by segments that are 48 inches (1220 mm) long minimum and 36 inches (915 mm) wide minimum.

403.5.2 Clear Width at Turn. Where the accessible route makes a 180 degree turn around an element which is less than 48 inches (1220 mm) wide, clear width shall be 42 inches (1065 mm) minimum approaching the turn, 48 inches (1220 mm) minimum at the turn and 42 inches (1065 mm) minimum leaving the turn.

EXCEPTION: Where the clear width at the turn is 60 inches (1525 mm) minimum compliance with 403.5.2 shall not be required.

403.5.3 Passing Spaces. An accessible route with a clear width less than 60 inches (1525 mm) shall provide passing spaces at intervals of 200 feet (61 m) maximum. Passing spaces shall be either: a space 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum; or, an intersection of two walking surfaces providing a T-shaped space complying with 304.3.2 where the base and arms of the T-shaped space extend 48 inches (1220 mm) minimum beyond the intersection.

403.6 Handrails. Where handrails are provided along walking surfaces with running slopes not steeper than 1:20 they shall comply with 505.

Advisory 403.6 Handrails. Handrails provided in elevator cabs and platform lifts are not required to comply with the requirements for handrails on walking surfaces.

404 Doors, Doorways, and Gates

404.1 General. Doors, doorways, and gates that are part of an accessible route shall comply with 404.

EXCEPTION: Doors, doorways, and gates designed to be operated only by security personnel shall not be required to comply with 404.2.7, 404.2.8, 404.2.9, 404.3.2 and 404.3.4 through 404.3.7.

Advisory 404.1 General Exception. Security personnel must have sole control of doors that are eligible for the Exception at 404.1. It would not be acceptable for security personnel to operate the doors for people with disabilities while allowing others to have independent access.

404.2 Manual Doors, Doorways, and Manual Gates . Manual doors and doorways and manual gates intended for user passage shall comply with 404.2.

404.2.1 Revolving Doors, Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

404.2.2 Double-Leaf Doors and Gates. At least one of the active leaves of doorways with two leaves shall comply with 404.2.3 and 404.2.4.

404.2.3 Clear Width. Door openings shall provide a clear width of 32 inches (815 mm) minimum. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees. Openings more than 24 inches (610 mm) deep shall provide a clear opening of 36 inches (915 mm) minimum. There shall be no projections into the required clear opening width lower than 34 inches (865 mm) above the finish floor or ground. Projections into the clear opening width between 34 inches (865 mm) and 80 inches (2030 mm) above the finish floor or ground shall not exceed 4 inches (100 mm).

EXCEPTIONS:
1. In alterations, a projection of 5/8 inch (16 mm) maximum into the required clear width shall be permitted for the latch side stop.
2. Door closers and door stops shall be permitted to be 78 inches (1980 mm) minimum above the finish floor or ground.

404.2.4 Maneuvering Clearances. Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

EXCEPTION: Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

404.2.4.1 Swinging Doors and Gates. Swinging doors and gates shall have maneuvering clearances complying with Table 404.2.4.1.

TABLE 404.2.4.1 Manuevering Clearances at Manual Swinging Doors & Gates

Type of Use		Minimum Maneuvering Clearance	
APPROACH DIRECTION	DOOR OR GATE SIDE	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	0 inches[1]
From hinge side	Pull	60 inches	36 inches
From hinge side	Pull	54 inches	42 inches
From hinge side	Push	42 inches[1]	22 inches[1]
From latch side	Pull	48 inches[1]	24 inches
From latch side	Push	42 inches[1]	24 inches

Table 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

1. Add 12 inches (305 mm) if closer and latch are provided.
2. Add 6 inches (150 mm) if closer and latch are provided.
3. Beyond hinge side.
4. Add 6 inches (150 mm) if closer is provided.

404.2.4.2 Doorways without Doors or Gates, Sliding Doors, and Folding Doors. Doorways less than 36 inches (915 mm) wide without doors or gates, sliding doors, or folding doors shall have maneuvering clearances complying with Table 404.2.4.2.

TABLE 404.2.4.2 Manuevering Clearances at Doorways without Doors or Gates, Manual Sliding Doors, and Manual Folding Doors

	Minimum Maneuvering Clearance	
APPROACH DIRECTION	PERPENDICULAR TO DOORWAY	PARALLEL TO DOORWAY (BEYOND LATCH SIDE UNLESS NOTED)
From front	48 inches	0 inches
From side[1]	42 inches	0 inches
From pocket/hinge side	42 inches	22 inches[2]
From stop/latch door	42 inches	24 inches

1. Doorway with no door only.
2. Beyond pocket/hinge side.

404.2.4.3 Recessed Doors and Gates. Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

Advisory 404.2.4.3 Recessed Doors and Gates . A door can be recessed due to wall thickness or because of the placement of casework and other fixed elements adjacent to the doorway. This provision must be applied wherever doors are recessed.

404.2.4.4 Floor or Ground Surface. Floor or ground surface within required maneuvering clearances shall comply with 302. Changes in level are not permitted.

EXCEPTIONS:
1. Slopes not steeper than 1:48 shall be permitted.
2. Changes in level at thresholds complying with 404.2.5 shall be permitted.
404.2.5 Thresholds. Thresholds, if provided at doorways, shall be 1/2 inch (13 mm) high maximum. Raised thresholds and changes in level at doorways shall comply with 302 and 303.

EXCEPTION: Existing or altered thresholds 3/4 inch (19 mm) high maximum that have a beveled edge on each side with a slope not steeper than 1:2 shall not be required to comply with 404.2.5.

404.2.6 Doors in Series and Gates in Series. The distance between two hinged or pivoted doors in series and gates in series shall be 48 inches (1220 mm) minimum plus the width of doors or gates swinging into the space.

404.2.7 Door and Gate Hardware. Handles, pulls, latches, locks, and other operable parts on doors and gates shall comply with 309.4. Operable parts of such hardware shall be 34 inches (865 mm) minimum and 48 inches (1220 mm) maximum above the finish floor or ground. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.

EXCEPTIONS:
1. Existing locks shall be permitted in any location at existing glazed doors without stiles, existing overhead rolling doors or grilles, and similar existing doors or grilles that are designed with locks that are activated only at the top or bottom rail.
2. Access gates in barrier walls and fences protecting pools, spas, and hot tubs shall be permitted to have operable parts of the release of latch on self-latching devices at 54 inches (1370 mm) maximum above the finish floor or ground provided the self-latching devices are not also selflocking devices and operated by means of a key, electronic opener, or integral combination lock.

Advisory 404.2.7 Door and Gate Hardware. Door hardware that can be operated with a closed fist or a loose grip accommodates the greatest range of users. Hardware that requires simultaneous hand and finger movements require greater dexterity and coordination, and is not recommended.

404.2.8 Closing Speed. Door and gate closing speed shall comply with 404.2.8.

404.2.8.1 Door Closers and Gate Closers. Door closers and gate closers shall be adjusted so that from an open position of 90 degrees, the time required to move the door to a position of 12 degrees from the latch is 5 seconds minimum.

404.2.8.2 Spring Hinges. Door and gate spring hinges shall be adjusted so that from the open position of 70 degrees, the door or gate shall move to the closed position in 1.5 seconds minimum.

404.2.9 Door and Gate Opening Force. Fire doors shall have a minimum opening force allowable by the appropriate administrative authority. The force for pushing or pulling open a door or gate other than fire doors shall be as follows:
1. Interior hinged doors and gates: 5 pounds (22.2 N) maximum.
2. Sliding or folding doors: 5 pounds (22.2 N) maximum.
These forces do not apply to the force required to retract latch bolts or disengage other devices that hold the door or gate in a closed position.

Advisory 404.2.9 Door and Gate Opening Force. The maximum force pertains to the continuous application of force necessary to fully open a door, not the initial force needed to overcome the inertia of the door. It does not apply to the force required to retract bolts or to disengage other devices used to keep the door in a closed position.

404.2.10 Door and Gate Surfaces. Swinging door and gate surfaces within 10 inches (255 mm) of the finish floor or ground measured vertically shall have a smooth surface on the push side extending the full width of the door or gate. Parts creating horizontal or vertical joints in these surfaces shall be within 1/16 inch (1.6 mm) of the same plane as the other. Cavities created by added kick plates shall be capped.

EXCEPTIONS:
1. Sliding doors shall not be required to comply with 404.2.10.
2. Tempered glass doors without stiles and having a bottom rail or shoe with the top leading edge tapered at 60 degrees minimum from the horizontal shall not be required to meet the 10 inch (255 mm) bottom smooth surface height requirement.
3. Doors and gates that do not extend to within 10 inches (255 mm) of the finish floor or ground shall not be required to comply with 404.2.10.
4. Existing doors and gates without smooth surfaces within 10 inches (255 mm) of the finish floor or ground shall not be required to provide smooth surfaces complying with 404.2.10 provided that if added kick plates are installed, cavities created by such kick plates are capped.

404.2.11 Vision Lights . Doors, gates, and side lights adjacent to doors or gates, containing one or more glazing panels that permit viewing through the panels shall have the bottom of at least one glazed panel located 43 inches (1090 mm) maximum above the finish floor.

EXCEPTION: Vision lights with the lowest part more than 66 inches (1675 mm) from the finish floor or ground shall not be required to comply with 404.2.11.

404.3 Automatic and Power-Assisted Doors and Gates . Automatic doors and automatic gates shall comply with 404.3. Full-powered automatic doors shall comply with ANSI/BHMA A156.10 (incorporated by reference, see "Referenced Standards" in Chapter 1). Low-energy and powerassisted doors shall comply with ANSI/BHMA A156.19 (1997 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1).

404.3.1 Clear Width. Doorways shall provide a clear opening of 32 inches (815 mm) minimum in power-on and power-off mode. The minimum clear width for automatic door systems in a doorway shall be based on the clear opening provided by all leaves in the open position.

404.3.2 Maneuvering Clearance. Clearances at power-assisted doors and gates shall comply with 404.2.4. Clearances at automatic doors and gates without standby power and serving an accessible means of egress shall comply with 404.2.4.

EXCEPTION: Where automatic doors and gates remain open in the power-off condition, compliance with 404.2.4 shall not be required.

404.3.3 Thresholds. Thresholds and changes in level at doorways shall comply with 404.2.5.

404.3.4 Doors in Series and Gates in Series. Doors in series and gates in series shall comply with 404.2.6.

404.3.5 Controls. Manually operated controls shall comply with 309. The clear floor space adjacent to the control shall be located beyond the arc of the door swing.

404.3.6 Break Out Opening. Where doors and gates without standby power are a part of a means of egress, the clear break out opening at swinging or sliding doors and gates shall be 32 inches (815 mm) minimum when operated in emergency mode.

EXCEPTION: Where manual swinging doors and gates comply with 404.2 and serve the same means of egress compliance with 404.3.6 shall not be required.

404.3.7 Revolving Doors, Revolving Gates, and Turnstiles. Revolving doors, revolving gates, and turnstiles shall not be part of an accessible route.

405 Ramps

405.1 General. Ramps on accessible routes shall comply with 405.

EXCEPTION: In assembly areas, aisle ramps adjacent to seating and not serving elements required to be on an accessible route shall not be required to comply with 405.
405.2 Slope. Ramp runs shall have a running slope not steeper than 1:12.

EXCEPTION: In existing sites, buildings, and facilities, ramps shall be permitted to have running slopes steeper than 1:12 complying with Table 405.2 where such slopes are necessary due to space limitations.

TABLE 405.2 Maximum Ramp Slope and Rise for Existing Sites, Buildings, and Facilities

Slope[1]	Max. Rise
Steeper than 1:10 but not steeper than 1:8	3 inches
Steeper than 1:12 but not steeper than 1:10	6 inches

1. A slope steeper than 1:8 is prohibited.

Advisory 405.2 Slope. To accommodate the widest range of users, provide ramps with the least possible running slope and, wherever possible, accompany ramps with stairs for use by those individuals for whom distance presents a greater barrier than steps, e.g., people with heart disease or limited stamina.

405.3 Cross Slope. Cross slope of ramp runs shall not be steeper than 1:48.

Advisory 405.3 Cross Slope. Cross slope is the slope of the surface perpendicular to the direction of travel. Cross slope is measured the same way as slope is measured (i.e., the rise over the run).

405.4 Floor or Ground Surfaces. Floor or ground surfaces of ramp runs shall comply with 302. Changes in level other than the running slope and cross slope are not permitted on ramp runs.

405.5 Clear Width. The clear width of a ramp run and, where handrails are provided, the clear width between handrails shall be 36 inches (915 mm) minimum.

EXCEPTION: Within employee work areas, the required clear width of ramps that are a part of common use circulation paths shall be permitted to be decreased by work area equipment provided that the decrease is essential to the function of the work being performed.

405.6 Rise. The rise for any ramp run shall be 30 inches (760 mm) maximum.

405.7 Landings. Ramps shall have landings at the top and the bottom of each ramp run. Landings shall comply with 405.7.

Advisory 405.7 Landings . Ramps that do not have level landings at changes in direction can create a compound slope that will not meet the requirements of this document. Circular or curved ramps continually change direction. Curvilinear ramps with small radii also can create compound cross slopes and cannot, by their nature, meet the requirements for accessible routes. A level landing is needed at the accessible door to permit maneuvering and simultaneously door operation.

Figure 405.7 Ramp Landings

405.7.1 Slope. Landings shall comply with 302. Changes in level are not permitted.
EXCEPTION: Slopes not steeper than 1:48 shall be permitted.

405.7.2 Width. The landing clear width shall be at least as wide as the widest ramp run leading to the landing.

405.7.3 Length. The landing clear length shall be 60 inches (1525 mm) long minimum.

405.7.4 Change in Direction. Ramps that change direction between runs at landings shall have a clear landing 60 inches (1525 mm) minimum by 60 inches (1525 mm) minimum.

405.7.5 Doorways. Where doorways are located adjacent to a ramp landing, maneuvering clearances required by 404.2.4 and 404.3.2 shall be permitted to overlap the required landing area.

405.8 Handrails. Ramp runs with a rise greater than 6 inches (150 mm) shall have handrails complying with 505.

EXCEPTION: Within employee work areas, handrails shall not be required where ramps that are part of common use circulation paths are designed to permit the installation of handrails complying with 505. Ramps not subject to the exception to 405.5 shall be designed to maintain a 36 inch (915 mm) minimum clear width when handrails are installed.

405.9 Edge Protection. Edge protection complying with 405.9.1 or 405.9.2 shall be provided on each side of ramp runs and at each side of ramp landings.

EXCEPTIONS:
1. Edge protection shall not be required on ramps that are not required to have handrails and have sides complying with 406.3.
2. Edge protection shall not be required on the sides of ramp landings serving an adjoining ramp run or stairway.
3. Edge protection shall not be required on the sides of ramp landings having a vertical drop-off of ½ inch (13 mm) maximum within 10 inches (255 mm) horizontally of the minimum landing area specified in 405.7.

405.9.1 Extended Floor or Ground Surface. The floor or ground surface of the ramp run or landing shall extend 12 inches (305 mm) minimum beyond the inside face of a handrail complying with 505.

Advisory 405.9.1 Extended Floor or Ground Surface. The extended surface prevents wheelchair casters and crutch tips from slipping off the ramp surface.

405.9.2 Curb or Barrier. A curb or barrier shall be provided that prevents the passage of a 4 inch (100 mm) diameter sphere, where any portion of the sphere is within 4 inches (100 mm) of the finish floor or ground surface.

Figure 405.9.2 Curb or Barrier Edge Protection

405.10 Wet Conditions. Landings subject to wet conditions shall be designed to prevent the accumulation of water.

406 Curb Ramps

406.1 General. Curb ramps on accessible routes shall comply with 406, 405.2 through 405.5, and 405.10.

406.2 Counter Slope. Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

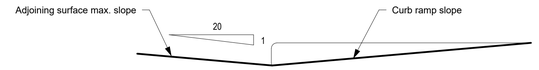


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.3 Sides of Curb Ramps. Where provided, curb ramp flares shall not be steeper than 1:10.

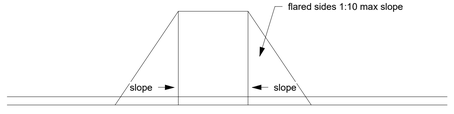


Figure 406.2 Counter Slope of Surfaces Adjacent to Curb Ramps

406.4 Landings. Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

EXCEPTION: In alterations, where there is no landing at the top of curb ramps, curb ramp flares shall be provided and shall not be steeper than 1:12.

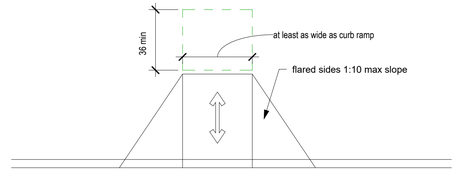


Figure 406.4 Landings at the Top of Curb Ramps

406.5 Location. Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

406.6 Diagonal Curb Ramps. Diagonal or corner type curb ramps with returned curbs or other welldefined edges shall have the edges parallel to the direction of pedestrian flow. The bottom of diagonal curb ramps shall have a clear space 48 inches (1220 mm) minimum outside active traffic lanes of the roadway. Diagonal curb ramps provided at marked crossings shall provide the 48 inches (1220 mm) minimum clear space within the markings. Diagonal curb ramps with flared sides shall have a segment of curb 24 inches (610 mm) long minimum located on each side of the curb ramp and within the marked crossing.

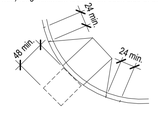


Figure 406.6 Diagonal or Corner Type Curb Ramps

406.7 Islands. Raised islands in crossings shall be cut through level with the street or have curb ramps at both sides. Each curb ramp shall have a level area 48 inches (1220 mm) long minimum by 36 inches (915 mm) wide minimum at the top of the curb ramp in the part of the island intersected by the crossings. Each 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum area shall be oriented so that the 48 inch (1220 mm) minimum length is in the direction of the running slope of the curb ramp it serves. The 48 inch (1220 mm) minimum by 36 inch (915 mm) minimum areas and the accessible route shall be permitted to overlap.

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CONSTRUCTION DOCUMENTS

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No.	Description	Date

KEY PLAN

ACCESSIBILITY STANDARDS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

G-004

Scale:

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407 Elevators

407.1 General. Elevators shall comply with 407 and with ASME A17.1 (incorporated by reference, see "Referenced Standards" in Chapter 1). They shall be passenger elevators as classified by ASME A17.1. Elevator operation shall be automatic.

Advisory 407.1 General. The ADA and other Federal civil rights laws require that accessible features be maintained in working order so that they are accessible to and usable by those people they are intended to benefit. Building owners should note that the ASME Safety Code for Elevators and Escalators requires routine maintenance and inspections. Isolated or temporary interruptions in service due to maintenance or repairs may be unavoidable; however, failure to take prompt action to effect repairs could constitute a violation of Federal laws and these requirements.

407.2 Elevator Landing Requirements. Elevator landings shall comply with 407.2.

407.2.1 Call Controls. Where elevator call buttons or keypads are provided, they shall comply with 407.2.1 and 309.4. Call buttons shall be raised or flush.

EXCEPTION: Existing elevators shall be permitted to have recessed call buttons.

407.2.1.1 Height. Call buttons and keypads shall be located within one of the reach ranges specified in 308, measured to the centerline of the highest operable part.

EXCEPTION: Existing call buttons and existing keypads shall be permitted to be located at 54 inches (1370 mm) maximum above the finish floor, measured to the centerline of the highest operable part.

407.2.1.2 Size. Call buttons shall be 3/4 inch (19 mm) minimum in the smallest dimension.

EXCEPTION: Existing elevator call buttons shall not be required to comply with 407.2.1.2.

407.2.1.3 Clear Floor or Ground Space . A clear floor or ground space complying with 305 shall be provided at call controls.

Advisory 407.2.1.3 Clear Floor or Ground Space. The clear floor or ground space required at elevator call buttons must remain free of obstructions including ashtrays, plants, and other decorative elements that prevent wheelchair users and others from reaching the call buttons. The height of the clear floor or ground space is considered to be a volume from the floor to 80 inches (2030 mm) above the floor. Recessed ashtrays should not be placed near elevator call buttons so that persons who are blind or visually impaired do not inadvertently contact them or their contents as they reach for the call buttons.

407.2.1.4 Location. The call button that designates the up direction shall be located above the call button that designates the down direction.

EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.2.1.4.

Advisory 407.2.1.4 Location, Exception . A destination-oriented elevator system provides lobby controls enabling passengers to select floor stops, lobby indicators designating which elevator to use, and a car indicator designating the floors at which the car will stop. Responding cars are programmed for maximum efficiency by reducing the number of stops any passenger experiences

407.2.1.5 Signals. Call buttons shall have visible signals to indicate when each call is registered and when each call is answered.

EXCEPTIONS:
1. Destination-oriented elevators shall not be required to comply with 407.2.1.5 provided that visible and audible signals complying with 407.2.2 indicating which elevator car to enter are provided.
2. Existing elevators shall not be required to comply with 407.2.1.5.

407.2.1.6 Keypads. Where keypads are provided, keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.2.2 Hall Signals. Hall signals, including in-car signals, shall comply with 407.2.2.

407.2.2.1 Visible and Audible Signals. A visible and audible signal shall be provided at each hoistway entrance to indicate which car is answering a call and the car's direction of travel. Where incar signals are provided, they shall be visible from the floor area adjacent to the hall call buttons.

EXCEPTIONS:
1. Visible and audible signals shall not be required at each destination-oriented elevator where a visible and audible signal complying with 407.2.2 is provided indicating the elevator car designation information.
2. In existing elevators, a signal indicating the direction of car travel shall not be required.

407.2.2.2 Visible Signals. Visible signal fixtures shall be centered at 72 inches (1830 mm) minimum above the finish floor or ground. The visible signal elements shall be 2 1/2 inches (64 mm) minimum measured along the vertical centerline of the element. Signals shall be visible from the floor area adjacent to the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall be permitted to have signals visible from the floor area adjacent to the hoistway entrance.
2. Existing elevators shall not be required to comply with 407.2.2.2

407.2.2.3 Audible Signals . Audible signals shall sound once for the up direction and twice for the down direction, or shall have verbal annunciators that indicate the direction of elevator car travel. Audible signals shall have a frequency of 1500 Hz maximum. Verbal annunciators shall have a frequency of 300 Hz minimum and 3000 Hz maximum. The audible signal and verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the hall call button.

EXCEPTIONS:
1. Destination-oriented elevators shall not be required to comply with 407.2.2.3 provided that the audible tone and verbal announcement is the same as those given at the call button or call button keypad.
2. Existing elevators shall not be required to comply with the requirements for frequency and dB range of audible signals.

407.2.2.4 Differentiation. Each destination-oriented elevator in a bank of elevators shall have audible and visible means for differentiation.

407.2.3 Hoistway Signs. Signs at elevator hoistways shall comply with 407.2.3.

407.2.3.1 Floor Designation. Floor designations complying with 703.2 and 703.4.1 shall be provided on both jambs of elevator hoistway entrances. Floor designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum. A tactile star shall be provided on both jambs at the main entry level.

Figure 407.2.3.1 Floor Designations on Jambs of Elevator Hoistway Entrances

407.2.3.2 Car Designations. Destination-oriented elevators shall provide tactile car identification complying with 703.2 on both jambs of the hoistway immediately below the floor designation. Car designations shall be provided in both tactile characters and braille. Tactile characters shall be 2 inches (51 mm) high minimum.

407.3 Elevator Door Requirements. Hoistway and car doors shall comply with 407.3.

407.3.1 Type. Elevator doors shall be the horizontal sliding type. Car gates shall be prohibited.

407.3.2 Operation. Elevator hoistway and car doors shall open and close automatically.

EXCEPTION: Existing manually operated hoistway swing doors shall be permitted provided that they comply with 404.2.3 and 404.2.9. Car door closing shall not be initiated until the hoistway door is closed.

407.3.3 Reopening Device. Elevator doors shall be provided with a reopening device complying with 407.3.3 that shall stop and reopen a car door and hoistway door automatically if the door becomes obstructed by an object or person.

EXCEPTION: Existing elevators with manually operated doors shall not be required to comply with 407.3.3.

407.3.3.1 Height. The device shall be activated by sensing an obstruction passing through the opening at 5 inches (125 mm) nominal and 29 inches (735 mm) nominal above the finish floor.

407.3.3.2 Contact. The device shall not require physical contact to be activated, although contact is permitted to occur before the door reverses.

407.3.3.3 Duration. Door reopening devices shall remain effective for 20 seconds minimum.

407.3.4 Door and Signal Timing. The minimum acceptable time from notification that a car is answering a call or notification of the car assigned at the means for the entry of destination information until the doors of that car start to close shall be calculated from the following equation: T = D/(1.5 fps) or T = D/(455 mm/s) + 5 seconds minimum where T equals the total time in seconds and D equals the distance (in feet or millimeters) from the point in the lobby or corridor 60 inches (1525 mm) directly in front of the farthest call button controlling that car to the centerline of its hoistway door.

EXCEPTIONS:
1. For cars with in-car lanterns, T shall be permitted to begin when the signal is visible from the point 60 inches (1525 mm) directly in front of the farthest hall call button and the audible signal is sounded.
2. Destination-oriented elevators shall not be required to comply with 407.3.4.

407.3.5 Door Delay. Elevator doors shall remain fully open in response to a car call for 3 seconds minimum.

407.3.6 Width. The width of elevator doors shall comply with Table 407.4.1.

EXCEPTION: In existing elevators, a power-operated car door complying with 404.2.3 shall be permitted.

407.4 Elevator Car Requirements. Elevator cars shall comply with 407.4.
407.4.1 Car Dimensions. Inside dimensions of elevator cars and clear width of elevator doors shall comply with Table 407.4.1.

EXCEPTION: Existing elevator car configurations that provide a clear floor area of 16 square feet (1.5 m2) minimum and also provide an inside clear depth 54 inches (1370 mm) minimum and a clear width 36 inches (915 mm) minimum shall be permitted.

Table 407.4.1 Elevator Car Dimensions
Minimum Dimensions

1. A tolerance of minus 5/8 inch (16 mm) is permitted.
2. Other car configurations that provide a turning space complying with 304 with the door closed shall be permitted.

407.4.2 Floor Surfaces. Floor surfaces in elevator cars shall comply with 302 and 303.

407.4.3 Platform to Hoistway Clearance. The clearance between the car platform sill and the edge of any hoistway landing shall be 1 1/4 inch (32 mm) maximum.

407.4.4 Leveling. Each car shall be equipped with a self-leveling feature that will automatically bring and maintain the car at floor landings within a tolerance of 1/2 inch (13 mm) under rated loading to zero loading conditions.

407.4.5 Illumination. The level of illumination at the car controls, platform, car threshold and car landing sill shall be 5 foot candles (54 lux) minimum.

407.4.6 Elevator Car Controls. Where provided, elevator car controls shall comply with 407.4.6 and 309.4.

EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.6 is provided, existing car operating panels shall not be required to comply with 407.4.6.

407.4.6.1 Location. Controls shall be located within one of the reach ranges specified in 308.

EXCEPTIONS:
1. Where the elevator panel serves more than 16 openings and a parallel approach is provided, buttons with floor designations shall be permitted to be 54 inches (1370 mm) maximum above the finish floor.
2. In existing elevators, car control buttons with floor designations shall be permitted to be located 54 inches (1370 mm) maximum above the finish floor where a parallel approach is provided.

407.4.6.2 Buttons. Car control buttons with floor designations shall comply with 407.4.6.2 and shall be raised or flush.

EXCEPTION: In existing elevators, buttons shall be permitted to be recessed.

407.4.6.2.1 Size. Buttons shall be 3/4 inch (19 mm) minimum in their smallest dimension.

407.4.6.2.2 Arrangement. Buttons shall be arranged with numbers in ascending order. When two or more columns of buttons are provided they shall read from left to right.

407.4.6.3 Keypads. Car control keypads shall be in a standard telephone keypad arrangement and shall comply with 407.4.7.2.

407.4.6.4 Emergency Controls. Emergency controls shall comply with 407.4.6.4.

407.4.6.4.1 Height. Emergency control buttons shall have their centerlines 35 inches (890 mm) minimum above the finish floor.

407.4.6.4.2 Location. Emergency controls, including the emergency alarm, shall be grouped at the bottom of the panel.

407.4.7 Designations and Indicators of Car Controls. Designations and indicators of car controls shall comply with 407.4.7.

EXCEPTION: In existing elevators, where a new car operating panel complying with 407.4.7 is provided, existing car operating panels shall not be required to comply with 407.4.7.

407.4.7.1 Buttons. Car control buttons shall comply with 407.4.7.1.

407.4.7.1.1 Type. Control buttons shall be identified by tactile characters complying with 703.2.

407.4.7.1.2 Location. Raised character and braille designations shall be placed immediately to the left of the control button to which the designations apply.

EXCEPTION: Where space on an existing car operating panel precludes tactile markings to the left of the controls, markings shall be placed as near to the control as possible.

407.4.7.1.3 Symbols. The control button for the emergency stop, alarm, door open, door close, main entry floor, and phone, shall be identified with tactile symbols as shown in Table 407.4.7.1.3.

Table 407.4.7.1.3 Elevator Control Button Identification

407.4.7.1.4 Visible Indicators. Buttons with floor designations shall be provided with visible indicators to show that a call has been registered. The visible indication shall extinguish when the car arrives at the designated floor.

407.4.7.2 Keypads. Keypads shall be identified by characters complying with 703.5 and shall be centered on the corresponding keypad button. The number five key shall have a single raised dot. The dot shall be 0.118 inch (3 mm) to 0.120 inch (3.05 mm) base diameter and in other aspects comply with Table 703.3.1.

407.4.8 Car Position Indicators. Audible and visible car position indicators shall be provided in elevator cars.

407.4.8.1 Visible Indicators. Visible indicators shall comply with 407.4.8.1.

407.4.8.1.1 Size. Characters shall be 1/2 inch (13 mm) high minimum.

407.4.8.1.2 Location. Indicators shall be located above the car control panel or above the door.

407.4.8.1.3 Floor Arrival. As the car passes a floor and when a car stops at a floor served by the elevator, the corresponding character shall illuminate.

EXCEPTION: Destination-oriented elevators shall not be required to comply with 407.4.8.1.3 provided that the visible indicators extinguish when the call has been answered.

407.4.8.1.4 Destination Indicator. In destination-oriented elevators, a display shall be provided in the car with visible indicators to show car destinations.

407.4.8.2 Audible Indicators. Audible indicators shall comply with 407.4.8.2.

407.4.8.2.1 Signal Type. The signal shall be an automatic verbal annunciator which announces the floor at which the car is about to stop.

EXCEPTION: For elevators other than destination-oriented elevators that have a rated speed of 200 feet per minute (1 m/s) or less, a non-verbal audible signal with a frequency of 1500 Hz maximum which sounds as the car passes or is about to stop at a floor served by the elevator shall be permitted.

407.4.8.2.2 Signal Level. The verbal annunciator shall be 10 dB minimum above ambient, but shall not exceed 80 dB, measured at the annunciator.

407.4.8.2.3 Frequency. The verbal annunciator shall have a frequency of 300 Hz minimum to 3000 Hz maximum.

407.4.9 Emergency Communication. Emergency two-way communication systems shall comply with 308. Tactile symbols and characters shall be provided adjacent to the device and shall comply with 703.2.

CHAPTER 6: PLUMBING ELEMENTS AND FACILITIES

601 General

601.1 Scope. The provisions of Chapter 6 shall apply where required by Chapter 2 or where referenced by a requirement in this document.

602 Drinking Fountains

602.1 General. Drinking fountains shall comply with 307 and 602.

602.2 Clear Floor Space. Units shall have a clear floor or ground space complying with 305 positioned for a forward approach and centered on the unit. Knee and toe clearance complying with 306 shall be provided.

EXCEPTION: A parallel approach complying with 305 shall be permitted at units for children's use where the spout is 30 inches (760 mm) maximum above the finish floor or ground and is 3 1/2 inches (90 mm) maximum from the front edge of the unit, including bumpers.

602.3 Operable Parts. Operable parts shall comply with 309.

602.4 Spout Height. Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground.

602.5 Spout Location. The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers.

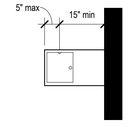


Figure 602.5 Drinking Fountain Spout Location

602.6 Water Flow. The spout shall provide a flow of water 4 inches (100 mm) high minimum and shall be located 5 inches (125 mm) maximum from the front of the unit. The angle of the water stream shall be measured horizontally relative to the front face of the unit. Where spouts are located less than 3 inches (75 mm) of the front of the unit, the angle of the water stream shall be 30 degrees maximum. Where spouts are located between 3 inches (75 mm) and 5 inches (125 mm) maximum from the front of the unit, the angle of the water stream shall be 15 degrees maximum

Advisory 602.6 Water Flow. The purpose of requiring the drinking fountain spout to produce a flow of water 4 inches (100 mm) high minimum is so that a cup can be inserted under the flow of water to provide a drink of water for an individual who, because of a disability, would otherwise be incapable of using the drinking fountain.

602.7 Drinking Fountains for Standing Persons. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.
5 mm) maximum above the finish floor or ground. Mirrors not
located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

603 Toilet and Bathing Rooms

603.1 General. Toilet and bathing rooms shall comply with 603.

603.2 Clearances. Clearances shall comply with 603.2.

603.2.1 Turning Space. Turning space complying with 304 shall be provided within the room. 603.2.2 Overlap. Required clear floor spaces, clearance at fixtures, and turning space shall be permitted to overlap.

603.2.3 Door Swing. Doors shall not swing into the clear floor space or clearance required for any fixture. Doors shall be permitted to swing into the required turning space.

EXCEPTIONS:
1. Doors to a toilet room or bathing room for a single occupant accessed only through a private office and not for common use or public use shall be permitted to swing into the clear floor space or clearance provided the swing of the door can be reversed to comply with 603.2.3.
2. Where the toilet room or bathing room is for individual use and a clear floor space complying with 305.3 is provided within the room beyond the arc of the door swing, doors shall be permitted to swing into the clear floor space or clearance required for any fixture.

Advisory 603.2.3 Door Swing Exception 1 . At the time the door is installed, and if the door swing is reversed in the future, the door must meet all the requirements specified in 404. Additionally, the door swing cannot reduce the required width of an accessible route. Also, avoid violating other building or life safety codes when the door swing is reversed.

603.3 Mirrors. Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

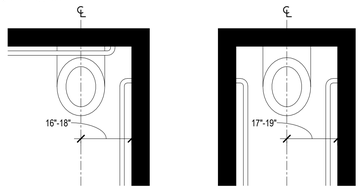
Advisory 603.3 Mirrors. A single full-length mirror can accommodate a greater number of people, including children. In order for mirrors to be usable by people who are ambulatory and people who use wheelchairs, the top edge of mirrors should be 74 inches (1880 mm) minimum from the floor or ground.

603.4 Coat Hooks and Shelves. Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

604 Water Closets and Toilet Compartments

604.1 General. Water closets and toilet compartments shall comply with 604.2 through 604.8. EXCEPTION: Water closets and toilet compartments for children's use shall be permitted to comply with 604.9.

604.2 Location. The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.



(a) wheelchair accessible water closets (b) ambulatory accessible water closets

Figure 604.2 Water Closet Location

604.3 Clearance. Clearances around water closets and in toilet compartments shall comply with 604.3.

604.3.1 Size. Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

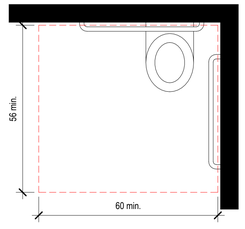


Figure 604.3.1 Size of Clearance at Water Closets

604.3.2 Overlap. The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

EXCEPTION: In residential dwelling units, a lavatory complying with 606 shall be permitted on the rear wall 18 inches (455 mm) minimum from the water closet centerline where the clearance at the water closet is 66 inches (1675 mm) minimum measured perpendicular from the rear wall.

Advisory 604.3.2 Overlap. When the door to the toilet room is placed directly in front of the water closet, the water closet cannot overlap the required maneuvering clearance for the door inside the room.

Figure 604.3.2 (Exception) Overlap of Water Closet Clearance in Residential Dwelling Units

604.4 Seats. The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

EXCEPTIONS:
1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.
2. In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the finish floor measured to the top of the seat.

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No.	Description	Date

KEY PLAN

ACCESSIBILITY STANDARDS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

G-005

Scale: 1/2" = 1'-0"

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702 Fire Alarm Systems

702.1 General. Fire alarm systems shall have permanently installed audible and visible alarms complying with NFPA 72 (1999 or 2002 edition) (incorporated by reference, see "Referenced Standards" in Chapter 1), except that the maximum allowable sound level of audible notification appliances complying with section 4-3.2.1 of NFPA 72 (1999 edition) shall have a sound level no more than 110 dB at the minimum hearing distance from the audible appliance. In addition, alarms in guest rooms required to provide communication features shall comply with sections 4-3 and 4-4 of NFPA 72 (1999 edition) or sections 7.4 and 7.5 of NFPA 72 (2002 edition).

EXCEPTION: Fire alarm systems in medical care facilities shall be permitted to be provided in accordance with industry practice.

703 Signs

703.1 General. Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

703.2 Raised Characters. Raised characters shall comply with 703.2 and shall be duplicated in braille complying with 703.3. Raised characters shall be installed in accordance with 703.4. Advisory 703.2 Raised Characters. Signs that are designed to be read by touch should not have sharp or abrasive edges.

703.2.1 Depth. Raised characters shall be 1/32 inch (0.8 mm) minimum above their background.

703.2.2 Case. Characters shall be uppercase.

703.2.3 Style. Characters shall be sans serif. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.2.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.2.5 Character Height. Character height measured vertically from the baseline of the character shall be 5/8 inch (16 mm) minimum and 2 inches (51 mm) maximum based on the height of the uppercase letter "I".

EXCEPTION: Where separate raised and visual characters with the same information are provided, raised character height shall be permitted to be 1/2 inch (13 mm) minimum.

703.2.6 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 15 percent maximum of the height of the character.

703.2.7 Character Spacing. Character spacing shall be measured between the two closest points of adjacent raised characters within a message, excluding word spaces. Where characters have rectangular cross sections, spacing between individual raised characters shall be 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum. Where characters have other cross sections, spacing between individual raised characters shall be 1/16 inch (1.6 mm) minimum and 4 times the raised character stroke width maximum at the base of the cross sections, and 1/8 inch (3.2 mm) minimum and 4 times the raised character stroke width maximum at the top of the cross sections. Characters shall be separated from raised borders and decorative elements 3/8 inch (9.5 mm) minimum.

703.2.8 Line Spacing. Spacing between the baselines of separate lines of raised characters within a message shall be 135 percent minimum and 170 percent maximum of the raised character height.

703.3 Braille. Braille shall be contracted (Grade 2) and shall comply with 703.3 and 703.4.

703.3.1 Dimensions and Capitalization. Braille dots shall have a domed or rounded shape and shall comply with Table 703.3.1. The indication of an uppercase letter or letters shall only be used before the first word of sentences, proper nouns and names, individual letters of the alphabet, initials, and acronyms.

TABLE 703.3.1 Braille Dimensions

Measurement Range	Minimum in Inches to Maximum in Inches
Dot base diameter	0.059 to 0.063
Distance between two dots in the same cell[1]	0.090 to 0.100
Distance between corresponding dots in adjacent cells[1]	0.241 to 0.300
Dot height	0.025 to 0.037
Distance between corresponding dots from one cell directly below[1]	0.395 to 0.400

703.3.2 Position. Braille shall be positioned below the corresponding text. If text is multi-lined, braille shall be placed below the entire text. Braille shall be separated 3/8 inch (9.5 mm) minimum from any other tactile characters and 3/8 inch (9.5 mm) minimum from raised borders and decorative elements.

EXCEPTION: Braille provided on elevator car controls shall be separated 3/16 inch (4.8 mm) minimum and shall be located either directly below or adjacent to the corresponding raised characters or symbols.

703.4 Installation Height and Location. Signs with tactile characters shall comply with 703.4.

703.4.1 Height Above Finish Floor or Ground. Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 60 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

EXCEPTION: Tactile characters for elevator car controls shall not be required to comply with 703.4.1.

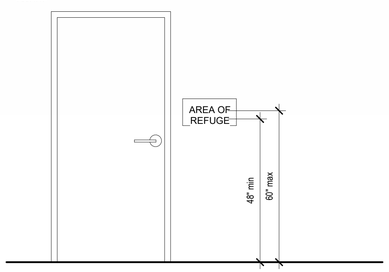


Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

703.4.2 Location. Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leafs, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

EXCEPTION: Signs with tactile characters shall be permitted on the push side of doors with closers and without hold-open devices.

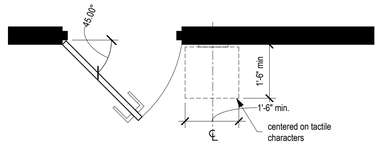


Figure 703.4.2 Location of Tactile Signs at Doors

703.5 Visual Characters. Visual characters shall comply with 703.5.

EXCEPTION: Where visual characters comply with 703.2 and are accompanied by braille complying with 703.3, they shall not be required to comply with 703.5.2 through 703.5.9.

703.5.1 Finish and Contrast. Characters and their background shall have a non-glare finish. Characters shall contrast with their background with either light characters on a dark background or dark characters on a light background.

Advisory 703.5.1 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and its background colors and textures.

703.5.2 Case. Characters shall be uppercase or lowercase or a combination of both.

703.5.3 Style. Characters shall be conventional in form. Characters shall not be italic, oblique, script, highly decorative, or of other unusual forms.

703.5.4 Character Proportions. Characters shall be selected from fonts where the width of the uppercase letter "O" is 55 percent minimum and 110 percent maximum of the height of the uppercase letter "I".

703.5.5 Character Height. Minimum character height shall comply with Table 703.5.5. Viewing distance shall be measured as the horizontal distance between the character and an obstruction preventing further approach towards the sign. Character height shall be based on the uppercase letter "I".

TABLE 703.5.5. Visual Character Height

Height to Finish Floor or Ground From Baseline of Character	Horizontal Viewing Distance	Minimum Character Height
40 inches to less than or equal to 70 inches	less than 72 inches	5/8 inch
	72 inches and greater	5/8 inch, plus 1/8 inch per foot of viewing distance above 72 inches
Greater than 70 inches to less than or equal to 120 inches	less than 180 inches	2 inches
	180 inches and greater	2 inches, plus 1/8 inch per foot of viewing distance above 180 inches
greater than 120 inches	less than 21 feet	3 inches
	21 feet and greater	3 inches plus 1/8 inch per foot of viewing distance above 21 feet

703.5.6 Height From Finish Floor or Ground. Visual characters shall be 40 inches (1015 mm) minimum above the finish floor or ground.

EXCEPTION: Visual characters indicating elevator car controls shall not be required to comply with 703.5.6.

703.5.7 Stroke Thickness. Stroke thickness of the uppercase letter "I" shall be 10 percent minimum and 30 percent maximum of the height of the character.

703.5.8 Character Spacing. Character spacing shall be measured between the two closest points of adjacent characters, excluding word spaces. Spacing between individual characters shall be 10 percent minimum and 35 percent maximum of character height.

703.5.9 Line Spacing. Spacing between the baselines of separate lines of characters within a message shall be 135 percent minimum and 170 percent maximum of the character height.

703.6 Pictograms. Pictograms shall comply with 703.6.

703.6.1 Pictogram Field. Pictograms shall have a field height of 6 inches (150 mm) minimum. Characters and braille shall not be located in the pictogram field.

703.6.2 Finish and Contrast. Pictograms and their field shall have a non-glare finish. Pictograms shall contrast with their field with either a light pictogram on a dark field or a dark pictogram on a light field.

Advisory 703.6.2 Finish and Contrast. Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

703.6.3 Text Descriptors. Pictograms shall have text descriptors located directly below the pictogram field. Text descriptors shall comply with 703.2, 703.3 and 703.4.

703.7 Symbols of Accessibility. Symbols of accessibility shall comply with 703.7.

703.7.1 Finish and Contrast. Symbols of accessibility and their background shall have a non-glare finish. Symbols of accessibility shall contrast with their background with either a light symbol on a dark background or a dark symbol on a light background.

Advisory 703.7.1 Finish and Contrast . Signs are more legible for persons with low vision when characters contrast as much as possible with their background. Additional factors affecting the ease with which the text can be distinguished from its background include shadows cast by lighting sources, surface glare, and the uniformity of the text and background colors and textures.

705 Detectable Warnings

705.1 General. Detectable warnings shall consist of a surface of truncated domes and shall comply with 705.

705.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 0.9 inch (23 mm) minimum and 1.4 inches (36 mm) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 0.2 inch (5.1 mm).

705.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-tocenter spacing of 1.6 inches (41 mm) minimum and 2.4 inches (61 mm) maximum, and a base-tobase spacing of 0.65 inch (17 mm) minimum, measured between the most adjacent domes on a square grid.

705.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent walking surfaces either light-on-dark, or dark-on-light.

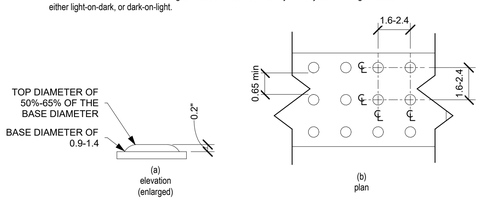


Figure 705.1 Size and Spacing of Truncated Domes

705.2 Platform Edges. Detectable warning surfaces at platform boarding edges shall be 24 inches (610 mm) wide and shall extend the full length of the public use areas of the platform.

208 Parking Spaces

208.1 General. Where parking spaces are provided, parking spaces shall be provided in accordance with 208.

EXCEPTION: Parking spaces used exclusively for buses, trucks, other delivery vehicles, law enforcement vehicles, or vehicular impound shall not be required to comply with 208 provided that lots accessed by the public are provided with a passenger loading zone complying with 503.

208.2 Minimum Number. Parking spaces complying with 502 shall be provided in accordance with Table 208.2 except as required by 208.2.1, 208.2.2, and 208.2.3. Where more than one parking facility is provided on a site, the number of accessible spaces provided on the site shall be calculated according to the number of spaces required for each parking facility.

TABLE 208.2 PARKING SPACES

Total Number of Parking Spaces Provided in Parking Facility	Minimum Number of Required Accessible Parking Spaces
1 to 25	1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5
151 to 200	6
201 to 300	7
301 to 400	8
401 to 500	9
501 to 1000	2 percent of total
1001 and over	20, plus 1 for each 100, or fraction thereof, over 1000

Advisory 208.2 Minimum Number. The term "parking facility" is used Section 208.2 instead of the term "parking lot" so that it is clear that both parking lots and parking structures are required to comply with this section. The number of parking spaces required to be accessible is to be calculated separately for each parking facility; the required number is not to be based on the total number of parking spaces provided in all of the parking facilities provided on the site.

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REGISTERED ARCHITECT GUILLERMO J. CAVAZOS, JR. 20150 STATE OF TEXAS
9/16/2026

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No.	Description	Date

KEY PLAN

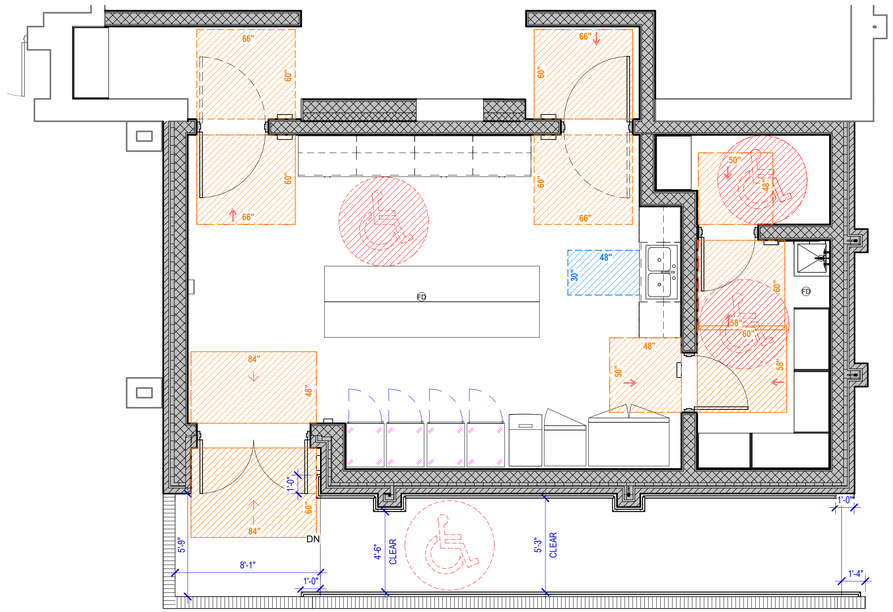
ACCESSIBILITY STANDARDS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

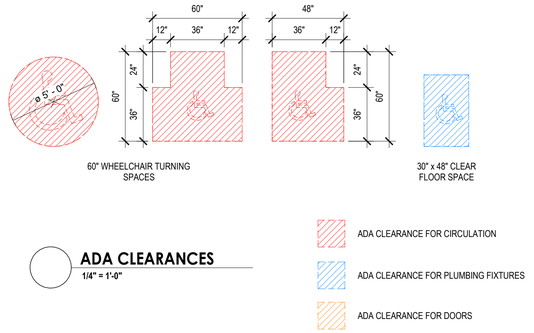
G-006

Scale: As indicated

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15/09/2026 06:18:21 p. m.



1 **TAS FLOOR PLAN**
1/4" = 1'-0"



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No.	Description	Date

KEY PLAN

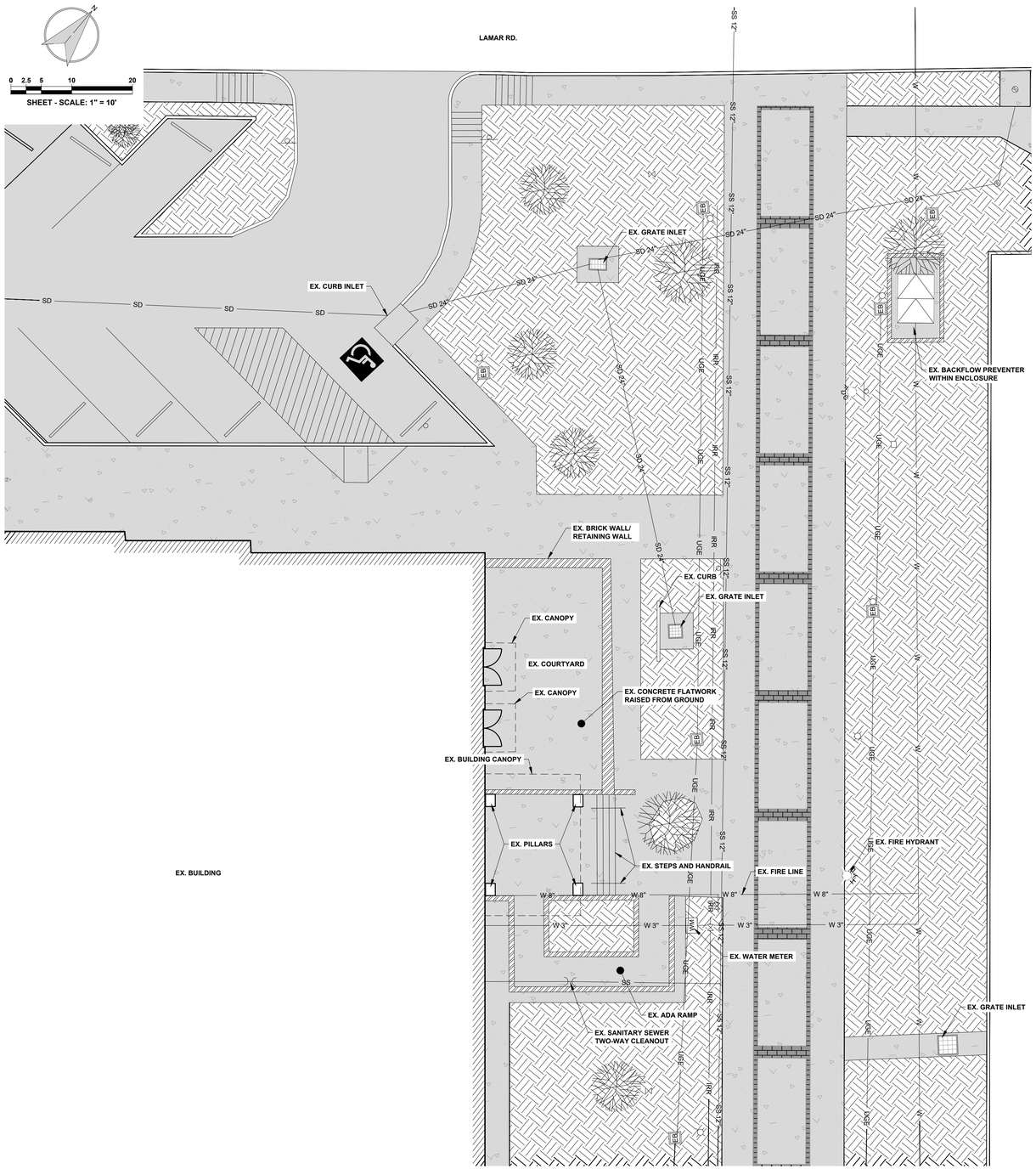
TAS FLOOR PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

G-007

Scale: 1/4" = 1'-0"

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LEGEND

STRUCTURES & SURFACE IMPROVEMENTS

- BUILDING LINE
- CANOPY
- CONCRETE FLATWORK (SIDEWALK/RIPRAP)
- ASPHALT PAVEMENT
- EARTH
- METAL PLATE
- STEEL STRUCTURE
- FENCELINE
- HANDRAIL
- SIGN
- ADA PARKING
- CONTOUR — 450
- LIGHT FIXTURE
- AIR CONDITION UNIT
- LIGHT POLE
- TREE

UTILITIES

- FIRE HYDRANT ASSEMBLY (COMPLETE)
- FIRE DEPARTMENT CONNECTION
- GATE VALVE
- FITTING
- WATER METER
- IRRIGATION WATER METER
- SPRINKLER HEAD
- BACKFLOW PREVENTER ASSY. (COMPLETE)
- WATER LINE CAP
- SANITARY SEWER MANHOLE
- CLEANOUT
- SANITARY SEWER SERVICE
- SANITARY LINE — SS —
- STORM SEWER MANHOLE
- SANITARY SEWER LINE — SD —
- POWER POLE
- OVERHEAD ELECTRICAL LINE — OHE —
- UNDERGROUND ELECTRICAL LINE — UGE —
- COMMUNICATIONS PEDESTAL
- TRANSFOREMER
- ELECTRICAL BOX
- COMMUNICATIONS LINE — COM —
- GAS LINE — GAS —

GENERAL NOTES

1. CONTRACTOR IS REQUIRED TO VISIT SITE AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PLACING A BID. BID SHALL BE ALL INCLUSIVE OF WORK REQUIRED TO COMPLETE THE PROJECT. NO CONSTRUCTION SHALL COMMENCE UNTIL PROPER CLEARANCES FROM THE ENGINEER/OWNER HAS BEEN OBTAINED. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING AS REQUIRED FOR THE PROJECT.
2. CONTRACTOR SHALL INCLUDE IN HIS BID ANY AND ALL NECESSARY TESTING PRIOR TO, DURING AND AFTER CONSTRUCTION ACTIVITIES.
3. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS AND PAYING ALL FEES AS REQUIRED.
4. CONTRACTOR SHALL INCLUDE IN HIS BID CONSTRUCTION STAKE OUT.
5. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE THESE PLANS HAS BEEN BASED UPON RECORD INFORMATION ONLY AND MAY NOT MATCH LOCATIONS AND/OR DEPTHS AS CONSTRUCTED. THE CONTRACTOR SHALL CONTACT EACH OF THE INDIVIDUAL UTILITY, FOR ASSISTANCE IN DETERMINING EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND DEPTHS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL UTILITY CROSSINGS (BOTH VERTICALLY AND HORIZONTALLY) PRIOR TO BEGINNING ANY CONSTRUCTION.
6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT THE NOTICE OF INTENT (NOI), IF REQUIRED, HAS BEEN FILED AND POSTED ONSITE.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING FACILITIES AND IMPROVEMENTS AS A RESULT OF THE CONTRACTOR'S WORK FROM DAMAGE . THE CONTRACTOR MUST NOTIFY THE ENGINEER AND THE OWNER IF UNINTENDED DAMAGE OR REMOVAL OCCURS TO EXISTING PAVEMENT, CURBS, BUILDINGS, SIGNS, SIDEWALKS, WALLS, FENCES, UTILITY INFRASTRUCTURE, TREES, AND ETC. THE CONTRACTOR MUST REPAIR/REPLACE ANY DAMAGED/REMOVED ITEMS TO EXISTING CONDITION AT HIS OWN EXPENSE.
8. RIGHT-OF-WAY LINES SHOWN ARE SOLELY FOR REPRESENTATION; THESE PLANS DO NOT ATTEMPT TO REESTABLISH OR CONFIRM ANY PROPERTY OR EASEMENT LINES.

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Scientists
Construction Managers
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TBPE Registration No. F-10573
TBLS Firm No. 10194365

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No.	Description	Date

STATE OF TEXAS
EDWARD L. OCHOA
92596
LICENSED PROFESSIONAL ENGINEER
09/16/2026

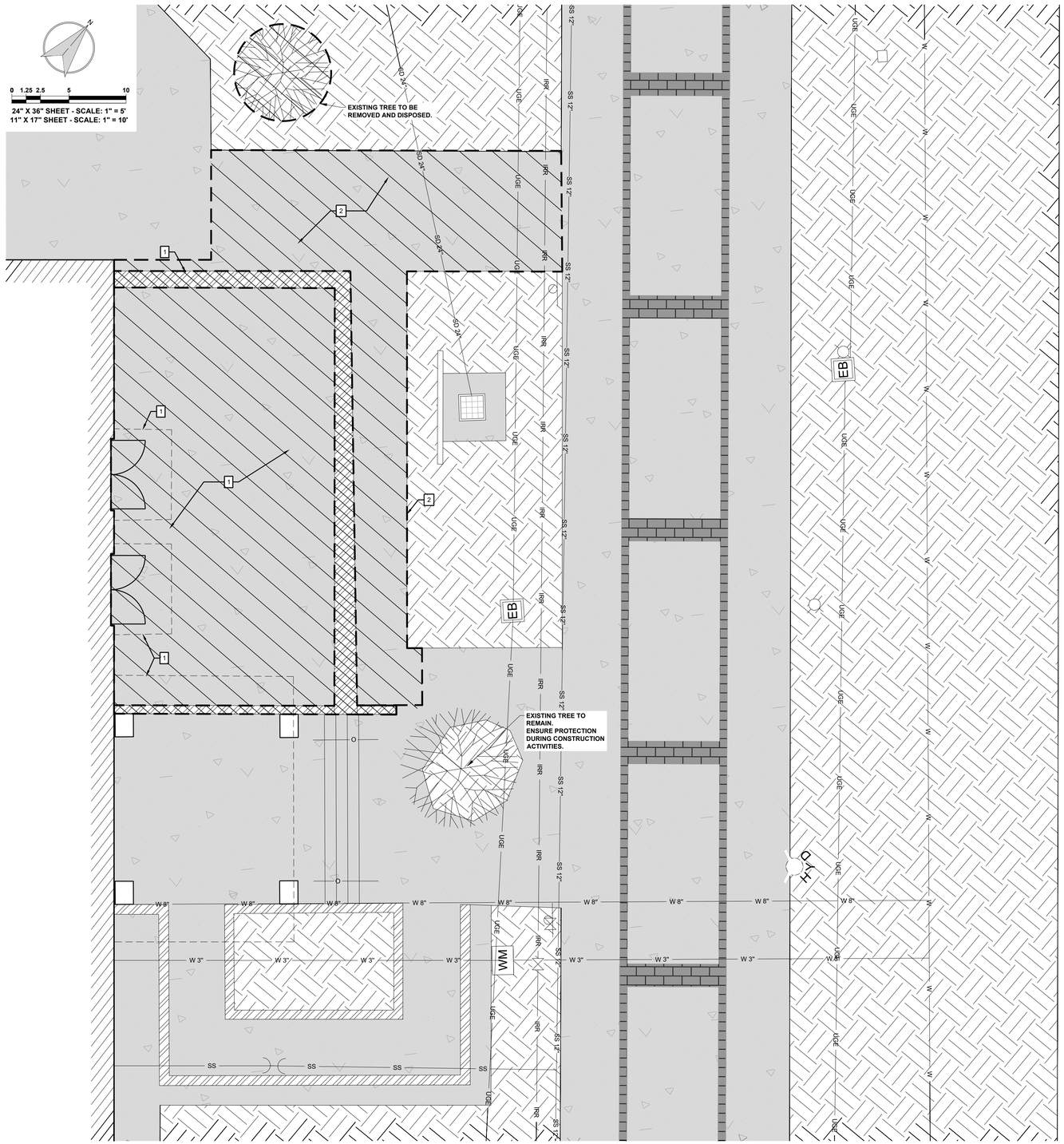
KEY PLAN

EXISTING CONDITIONS

Drawn by:	J.A.B.
Checked by:	E.L.O.
Project number:	25-14
Project Issue Date:	09/16/2026

C1.0

Scale: As indicated



1 **PLAN - GRADING PLAN**
SCALE: 1" : 5'

DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION AND THE PROPER REMOVAL/DISPOSAL OF ALL ABOVE GROUND ITEMS INCLUDING BUT NOT LIMITED TO CONCRETE CHANNELS, IRRIGATION PIPES, IRRIGATION APPARATUS, TREES, TRASH, AND MISCELLANEOUS DEBRIS.
2. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO LOCATE THE EXISTING FACILITIES. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES VERIFYING UTILITIES ARE SHUT OFF OR DISCONNECTED, AND ALL POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO ENSURE THE SAFEST ENVIRONMENT FOR ALL PERSONNEL.
3. THE CONTRACTOR SHALL ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER DOCUMENTS APPROVED BY ALL THE PERMITTING AUTHORITIES.

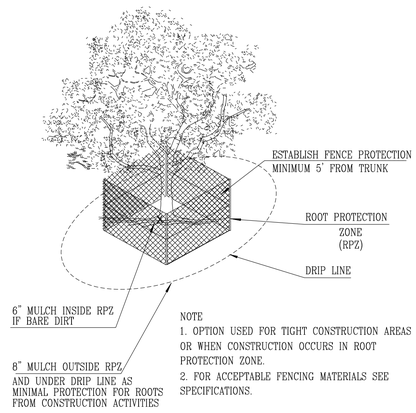
UTILITY LINES

1. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING UNDER AND AROUND EXISTING UTILITY LINES. THE CONTRACTOR SHALL PROVIDE NECESSARY PROVISIONS TO PROTECT LINES REMAINING AT ALL TIMES DURING CONSTRUCTION. CONTRACTOR SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORD DRAWINGS AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS EXACT OR COMPLETE. CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST SEVENTY-TWO (72) HOURS BEFORE ANY EXCAVATION, REMOVAL OR DEMOLITION OF UTILITIES TO REQUEST EXACT FIELD LOCATIONS OF THEIR UTILITIES. CONTRACTOR SHALL COMPLY WITH THE "TEXAS UNDERGROUND FACILITY DAMAGE AND PREVENTION SAFETY ACT". TEXAS ONE CALL SYSTEM (800-245-4545) SHALL BE CONTACTED AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO ANY EXCAVATION OPERATIONS BEING PERFORMED. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM. CONTRACTOR SHALL PROVIDE TRENCHING FOR ALL UTILITY RELOCATIONS OR ADJUSTMENTS AS MAY BE REQUIRED FOR THIS PROJECT.

SITE DEMOLITION KEY NOTES

1 EXISTING FLATWORK, WALLS, CANOPIES, DOORS AND UTILITIES TO BE DEMOLISHED AND DISPOSED. DEMOLITION AREA TO BE COORDINATED WITH ARCHITECT, STRUCTURAL ENGINEER, AND MEP ENGINEERS.

2 REMOVE AND DISPOSE APPROX. 500.0 SF. OF EXISTING CONCRETE SIDEWALK.



1 **DETAIL - TREE PROTECTION**
SCALE: N.T.S.

DEMOLITION PLAN LEGEND

DEMOLITION (AREA)	
DEMOLITION (UTILITY LINE)	

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No.	Description	Date

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EDWARD L. OCHOA
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LICENSED PROFESSIONAL ENGINEER
09/16/2026

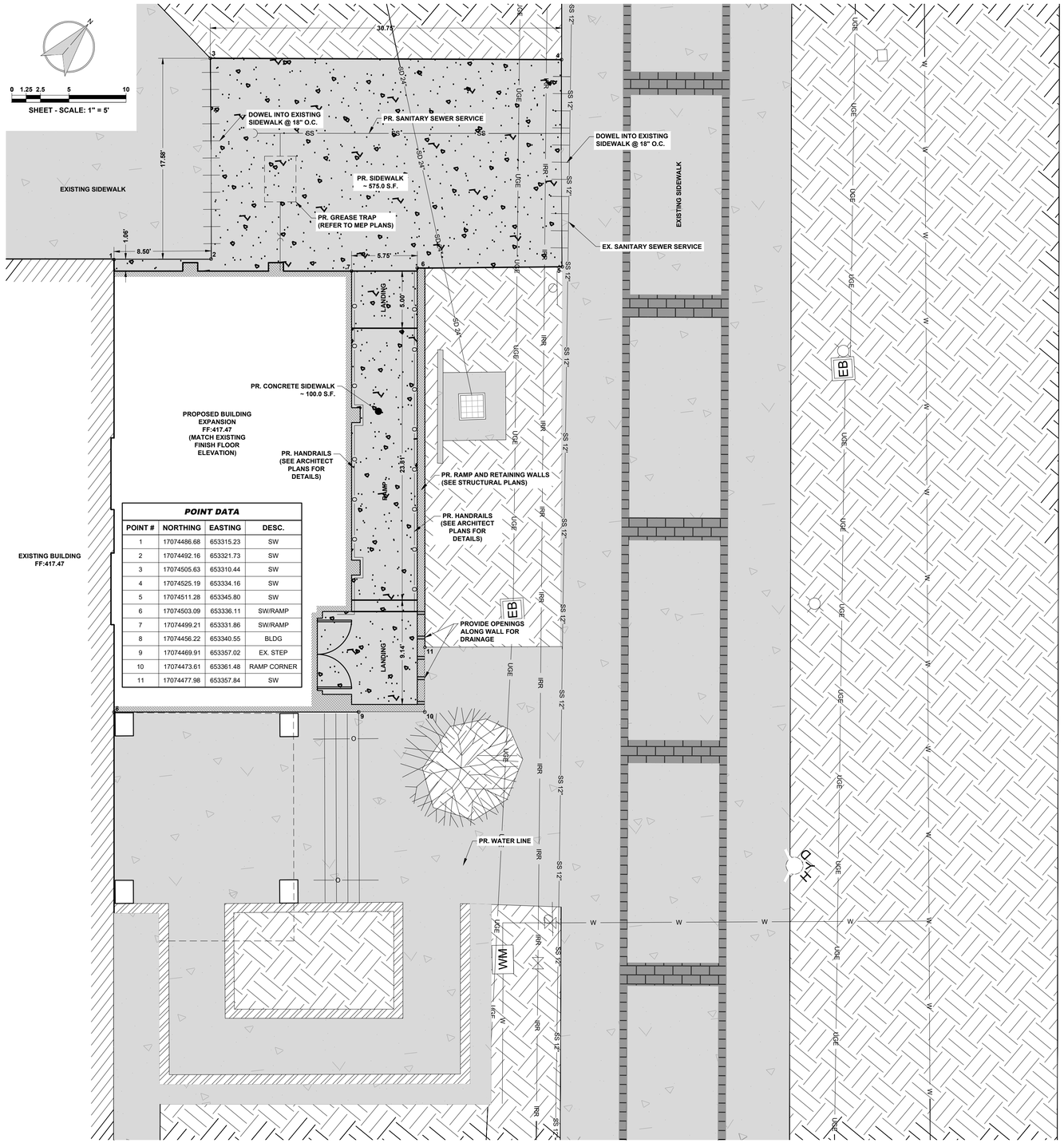
KEY PLAN

DEMOLITION PLAN

Drawn by:	J.A.B.
Checked by:	E.L.O.
Project number:	25-14
Project Issue Date:	09/16/2026

C2.0

Scale: As indicated



POINT DATA			
POINT #	NORTHING	EASTING	DESC.
1	17074486.68	653315.23	SW
2	17074492.16	653321.73	SW
3	17074505.63	653310.44	SW
4	17074525.19	653334.16	SW
5	17074511.28	653345.80	SW
6	17074503.09	653336.11	SW/RAMP
7	17074499.21	653331.86	SW/RAMP
8	17074456.22	653340.55	BLDG
9	17074469.91	653357.02	EX. STEP
10	17074473.61	653361.48	RAMP CORNER
11	17074477.98	653357.84	SW

1 PLAN - DIMENSIONAL PLAN
SCALE: 1" : 5'

SITE NOTES

1. ALL PROJECT COORDINATES ARE ESTABLISHED BASED ON THE PROVIDED CONTROL DATA ON THE CONTROL / BENCHMARK DATA SHEET.
2. THE CONTRACTOR SHALL LAY OUT THE WORK FROM THE OWNER'S ESTABLISHED PROPERTY BOUNDARY CONTROL AND BENCHMARKS, AS INDICATED ON THE ENGINEER'S DIMENSION PLAN AND BENCHMARK & CONTROL DATA SHEET. THE CONTRACTOR SHALL COORDINATE ANY ADDITIONAL DIMENSIONS NEEDED WITH THE ENGINEER PRIOR TO CONSTRUCTION ACTIVITIES.
3. RADIAL AND TYPICAL DIMENSIONS SHOWN ARE TAKEN FROM THE BACK OF CURB OR EDGE OF SIDEWALK, UNLESS OTHERWISE PRESENTED ON THIS PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND ARCHITECT PRIOR TO MAKING ANY FIELD CHANGES THAT DIFFER FROM THIS DIMENSION PLAN.
4. CONTRACTOR SHALL PROVIDE CONSTRUCTION STAKING AS REQUIRED.
5. CONTRACTOR SHALL SAW-CUT AND/OR ADJUST EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE TO PROPOSED PAVEMENT SURFACES.
6. ALL PROJECT ELEVATIONS ARE ESTABLISHED BASED ON THE PROVIDED BENCHMARK ELEVATIONS ON THE CONTROL / BENCHMARK DATA PLAN. ALL ELEVATIONS, CONTOURS, AND GRADES SHOW THE ELEVATION OF THE EXISTING GROUND. THE CONTRACTOR SHALL TAKE INTO CONSIDERATION THE ROADWAY SECTIONS, BUILDING SUBGRADE PREPARATION, AND ANY OTHER ELEVATIONS NOT PART OF THE PROPOSED NATURAL GROUND WHEN MAKING CUT AND FILL CALCULATIONS. ALL GRADING OF PROPOSED NATURAL GROUND SHALL BE GRADED TO DRAIN AND SHALL NOT EXCEED 3:1 SLOPE UNLESS OTHERWISE NOTED ON THE PLANS.
7. PAVEMENT MARKINGS AND SIGNAGE FOR ACCESSIBILITY SPACES, ROUTES AND RAMPS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT (ADA) AND THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR) AND SHALL BE PAINTED BLUE AND WHITE IN ACCORDANCE WITH THE MOST RECENT ARCHITECTURAL BARRIERS REQUIREMENTS AND AS PER CIVIL STRIPING PLAN. PAVEMENT MARKINGS AND SIGNAGE SHALL BE PROVIDED BY THE CONTRACTOR AND COORDINATED WITH THE ENGINEER AND THE CITY OF LAREDO BUILDING DEPARTMENT.
8. CONTRACTOR SHALL SAW-CUT AND/OR ADJUST EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE.
9. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE CONDITIONS DURING ALL CONSTRUCTION PHASES OF THE PROJECT UNTIL THE PERMANENT DRAINAGE FACILITIES ARE CONSTRUCTED AND READY TO USE. HANDLE ALL EXCAVATED AND STOCKPILED MATERIAL IN SUCH A WAY THAT IT WILL NOT BLOCK DRAINAGE OR DAMAGE EXISTING ENVIRONMENTAL ITEMS.
10. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL REQUIREMENTS SET FORTH BY THE GEOTECHNICAL REPORT. ALL DEWATERING AND ROCK CUTTING MEASURES SHALL BE PART OF BASE BID UNLESS OTHERWISE IDENTIFIED ON THE PLANS.
11. CONTRACTOR SHALL ENSURE THE SAFETY OF WORKERS DURING EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL INSTALL TRENCH SAFETY MEASURES WHEN TRENCHING MORE THAN 5 FEET OF DEPTH. TRENCHING MORE THAN 20 FEET OF DEPTH REQUIRES A PROTECTIVE SYSTEM DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER OR BASED ON TABULATED DATA PREPARED AND/OR APPROVED BY A REGISTERED PROFESSIONAL ENGINEER IN ACCORDANCE WITH OSHA REGULATION 1926.652(B) AND (C).
12. CONTRACTOR SHALL ADJUST ALL UTILITIES TO FINISH GRADE UNLESS NOTED OTHERWISE ON THESE PLANS.

LEGEND

BUILDING LINE	
CURB & GUTTER	
CONCRETE PAVEMENT	
CONCRETE FLATWORK (SIDEWALK/RIPRAP)	
ASPHALT PAVEMENT	
COORDINATE POINT	○ 1
FENCELINE	—x—x—
HANDRAIL	—o—o—
TREE	
SIGN	

ABBREVIATIONS:
FF = FINISH FLOOR
BC = BACK OF CURB
BLDG = BUILDING
FL = FLOWLINE
INV = INVERT
NG = NATURAL GROUND
RIM = RIM ELEVATION
SW = SIDEWALK
TC = TOP OF CONCRETE

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No.	Description	Date

STATE OF TEXAS
EDWARD L. OCHOA
92596
LICENSED PROFESSIONAL ENGINEER
09/16/2026

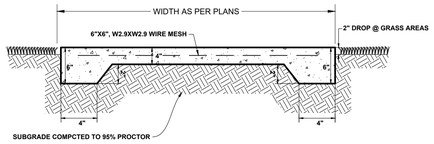
KEY PLAN

DIMENSIONAL PLAN

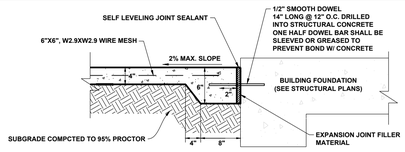
Drawn by:	J.A.B.
Checked by:	E.L.O.
Project number:	25-14
Project Issue Date:	09/16/2026

C3.0

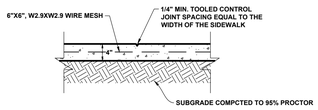
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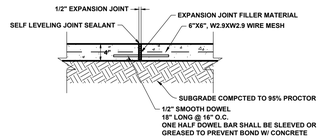
TYPICAL SIDEWALK SECTION
SCALE: N.T.S.



SIDEWALK ADJACENT TO BUILDING
SCALE: N.T.S.



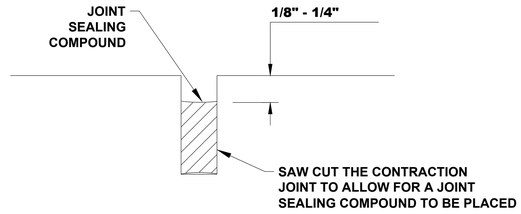
SIDEWALK CONTROL JOINT
SCALE: N.T.S.



SIDEWALK EXPANSION JOINT
SCALE: N.T.S.

NOTES:
1. CONCRETE SHALL BE 3,000 PSI.
2. ONE HALF INCH (½) THICK MINIMUM PREFORMED BITUMINOUS EXPANSION JOINT MATERIAL SET THREE-FOURTH (¾) INCH BELOW FINISH SURFACE SHALL BE INSTALLED AT EXPANSION JOINTS.
3. DOWELS SHALL BE PLAIN BARS AND SHALL HAVE ONE HALF (½) THE BAR WRAPPED WITH 2 LAYERS OF ROOFING FELT OR PLASTIC TUBE.
4. 6"X6", W2.9XW2.9 SHALL BE USED AS REINFORCEMENT
5. THE FINISH SHALL SEMISMOOTH WITH STIFF BROOM OR BRUSH FINISH.
6. CONTROL JOINTS SHALL BE SCORED AT SPACING EQUAL TO WIDTH OF SIDEWALK.
7. EXPANSION JOINTS AT MAXIMUM 80 FEET WITH SMOOTH 18" LONG DOWELS @ 16" C.C. AND ½" MINIMUM PREFORMED BITUMINOUS EXPANSIONS JOINT MATERIAL.
8. FORM FOR SIDEWALKS SHALL BE FULL DEPTH FOR DIMENSION SPECIFIED.
9. CURB AND GUTTER CONTRACTION JOINT SHALL MATCH SIDEWALK JOINT.
10. ALL SIDEWALKS WITHIN PUBLIC R.O.W. SHALL BE DONE IN ACCORDANCE WITH CITY REQUIREMENTS
11. THE SLOPE OF SITE SIDEWALKS SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 5% OR A CROSS-SLOPE OF 2%

9 DETAIL - CONCRETE SIDEWALK
SCALE: N.T.S.



7 JOINT SEALING DETAIL
SCALE: N.T.S.

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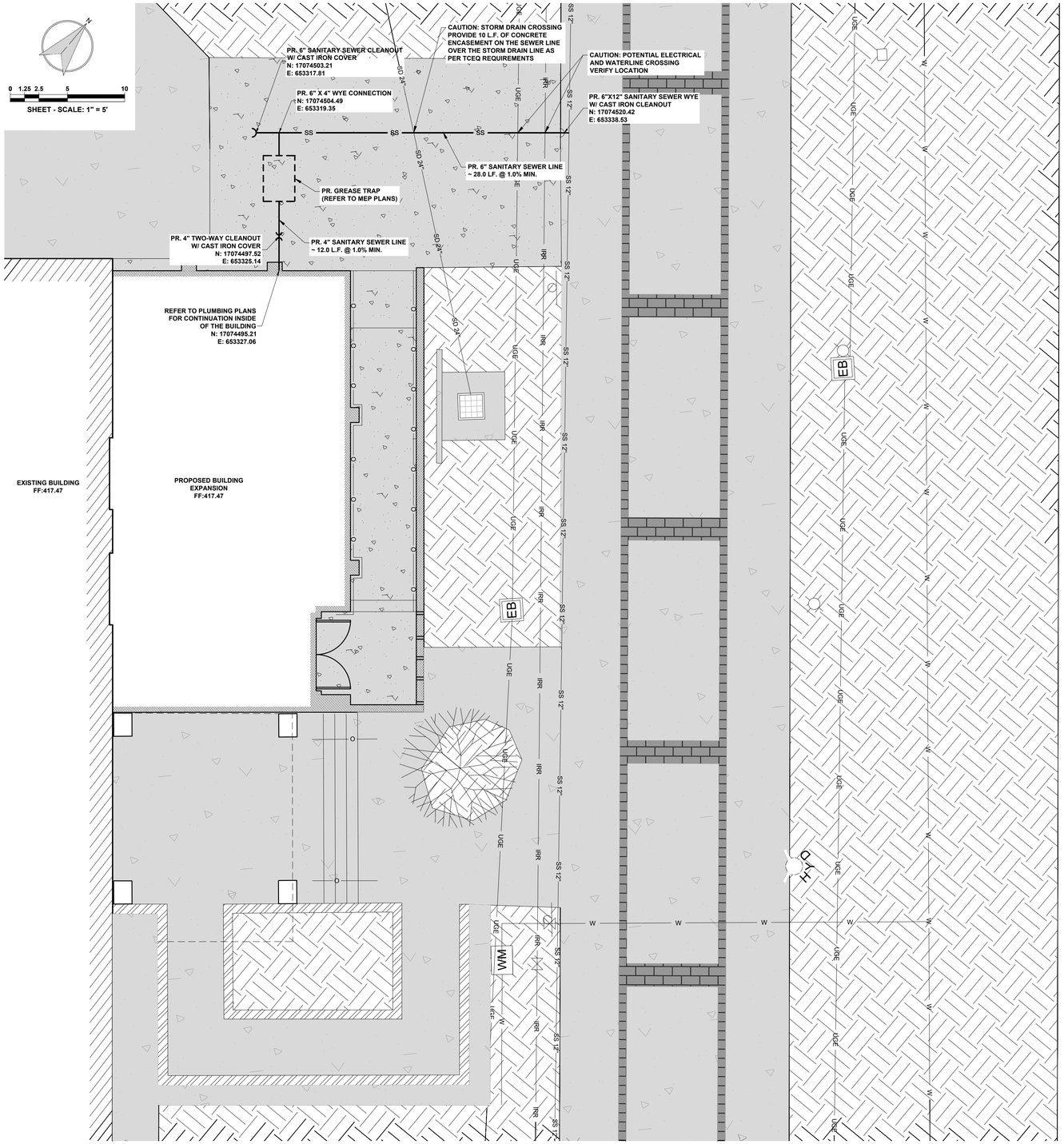
KEY PLAN

DETAILS

Drawn by:	J.A.B.
Checked by:	E.L.O.
Project number:	25-14
Project Issue Date:	09/16/2026

C4.0

Scale:	As indicated



1 **PLAN - UTILITIES PLAN**
SCALE: 1" : 5'

UTILITY NOTES

1. AS REQUIRED BY THE "TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT", TEXAS ONE CALL MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.
2. THE CONTRACTOR SHALL COORDINATE ANY UTILITY WORK DONE WITHIN CITY R.O.W. INCLUDING BUT NOT LIMITED TO TRENCHING AND CONNECTING TO EXISTING UTILITY INFRASTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING TO EXISTING CONDITION ALL UTILITY DAMAGES. IN THE CASE OF A UTILITY CONNECTION, THE CONTRACTOR SHALL INSTALL ANY CONNECTIONS AS PER THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL.
3. THE CONTRACTOR SHALL COORDINATE THE INTENDED IMPROVEMENTS WITH ALL UTILITY COMPANIES HAVING JURISDICTION IN THE PROJECT SITE. LOCATIONS OF UTILITIES SHOWN ON THESE PLANS WERE DERIVED FROM BEST AVAILABLE SOURCES AND FIELD SURVEYS AND REPRESENT THE ENGINEER'S BEST ATTEMPT TO RECREATE EXISTING CONDITIONS. ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION, DEPTH, AND SIZES OF ALL UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO CONSTRUCTION AND MAKE PROVISIONS FOR THEIR PROTECTION.
4. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL ANY FIELD CHANGES PERFORMED TO ACHIEVE THE DESIGN REQUIRED.
5. ANY DAMAGE TO CITY OR PRIVATE UTILITY LINES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, THE CITY AND/OR APPROPRIATE UTILITY COMPANY. REPAIRS TO THESE UTILITY LINES WILL BE AT THE DIRECTION OF THE CITY AND/OR THE UTILITY COMPANY AFFECTED AND WILL BE AT THE CONTRACTORS EXPENSE. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGES OR DOWN TIME CAUSED BY DAMAGE TO UTILITIES.
6. THE CONTRACTOR SHALL PROVIDE PRIMARY AND SECONDARY TRENCHING AND BACKFILL FOR THE UTILITY COMPANIES, AS REQUIRED.
7. ERECTION AND/OR REMOVAL OF POLES AND LUMINARIES LOCATED NEAR ANY OVERHEAD OR UNDERGROUND ELECTRICAL LINES SHALL BE ACCOMPLISHED USING ESTABLISHED INDUSTRY AND UTILITY SAFETY PRACTICES AND SHALL COMPLY WITH TEXAS STATE LAW AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL CONSULT WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING SUCH WORK.
8. CONTRACTOR SHALL INCLUDE IN HIS BID THE REQUIRED ADJUSTMENT OF ALL VALVES, VALVE COVERS, MANHOLE LIDS, FIRE HYDRANTS, CLEANOUTS, AND ANY OTHER MISC. UTILITY ITEM WHETHER SHOWN ON THESE PLANS OR NOT.
9. IF ANY OVERHEAD OR UNDERGROUND ELECTRICAL LINES NEED TO BE DE-ENERGIZED, THE CONTRACTOR SHALL CALL THE POWER COMPANY TO DO THIS WORK.
10. THE CONTRACTOR SHALL MAINTAIN MINIMUM THE WALL-TO-WALL SEPARATION BETWEEN SEWER AND WATER UTILITIES AS REQUIRED BY TCEQ REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL TCEQ REGULATIONS PRIOR TO UTILITY WORK.
11. CONTRACTOR SHALL INCLUDE IN HIS BID ALL COSTS ASSOCIATED WITH RELOCATION AND EXTENSION OF SERVICES WITHIN THE PROJECT AREA INCLUDING GAS, TELEPHONE, DATA, CABLE, AND ELECTRICAL.
12. DUE TO FEDERAL REGULATION TITLE 49, PART 192.81, CENTER POINT ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

SANITARY SEWER SYSTEM NOTES

1. CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLES TO PROPOSED GRADE.
2. SANITARY SEWER INVERTS FLOWING INTO MANHOLES WITH AN INVERT-TO-FLOW ELEVATION DIFFERENCE GREATER THAN 2 FEET SHALL HAVE A MANHOLE DROP INSTALLED AS PER CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - STANDARD TYPICAL DETAILS SECTION.
3. IF SANITARY SEWER SERVICES ARE FOUND THAT ARE NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL TIE-IN TO PROPOSED SEWER IN ACCORDANCE WITH THE CITY OF LAREDO SANITARY SEWER SERVICE STANDARD.
4. ALL PERTINENT TESTING PROCEDURES SHALL BE REQUIRED ON PROPOSED SANITARY SEWER SYSTEM AS IF LOCATED IN CITY RIGHT-OF-WAY DUE TO SCOPE OF PROJECT AND REQUIREMENTS BY THE CITY OF LAREDO UTILITIES DEPARTMENT. THE FOLLOWING TESTS WILL BE REQUIRED AND SHALL BE CONDUCTED BY THE CITY OF LAREDO UTILITIES DEPARTMENT AS PER THE CITY OF LAREDO UTILITIES DEPARTMENT REQUIREMENTS:
   - DEFLECTION TEST (MANDREL TEST)
   - LEAKAGE OF SANITARY SEWER LINE (AIR TEST)
   - LEAKAGE TESTING OF SANITARY SEWER MANHOLES (HYDROSTATIC EXFILTRATION TESTING)
   - CCTV INSPECTION
5. THE SANITARY SEWER LINE & MANHOLE INITIAL TEST SHALL NOT BE OF EXPENSE TO THE CONTRACTOR. IF INSPECTION DOES NOT MEET ACCEPTABLE CRITERIA AS PER THE CITY OF LAREDO UTILITIES DEPARTMENT, THE CONTRACTOR SHALL CORRECT THE FAULTS DETERMINED BY THE CITY OF LAREDO UTILITIES DEPARTMENT AND PAY FOR ANY TEST EXPENSES AFTER THE INITIAL TEST.
6. ABANDONMENT OF LINES AND MANHOLES SHALL COMPLY WITH SECTION 216 OF THE CITY OF LAREDO STANDARD SPECIFICATIONS. IF ABANDONMENT OF AN INLET, CLEANOUT, AND MANHOLE IS REQUIRED, IT SHALL BE REMOVED COMPLETELY TO A DEPTH OF ONE FOOT BELOW THE BOTTOM OF THE TRENCH. IN EACH INSTANCE, THE BOTTOM OF THE TRENCH SHALL BE RESTORED TO GRADE BY BACKFILLING AND COMPACTING BY THE METHODS PROVIDED HEREIN FOR BACKFILL. REFER TO SECTION 102 - EXCAVATION AND BACKFILL FOR UTILITIES.

WATER DISTRIBUTION SYSTEM NOTES

1. FOR ALL WATER TIE-IN CONNECTIONS, FITTINGS AND VALVES, THE CONTRACTOR SHALL PROVIDE MECHANICAL JOINT RESTRAINED FITTINGS. ALL RESTRAINTS AND CORRESPONDING LENGTHS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS. RESTRAINT LENGTHS FOR EBAA IRON, INC. MEGALUG RESTRAINTS ARE SHOWN IN THE DETAILS SECTION OF THIS PLAN. THE CONTRACTOR MAY USE MEGALUG RESTRAINTS OR EQUAL. IF OTHER IS USED, CONTRACTOR SHALL PROVIDE CALCULATIONS TO THE ENGINEER DEMONSTRATING EQUIVALENT OR BETTER DESIGN SPECIFICATIONS AND SHALL BE INCLUDED IN A SUBMITTAL FOR APPROVAL.
2. CONTRACTOR SHALL ADJUST ALL EXISTING METER BOXES, VALVES, COVERS, ETC. TO PROPOSED GRADES.
3. CONNECT ALL WATER SERVICES AFTER PRESSURE & BACTERIOLOGICAL TESTS REQUIRED BY CITY OF LARED ARE APPROVED.
4. ALL WATER LINES SHALL BE PRESSURE TESTED AND DISINFECTED AS PER THE CITY OF LAREDO STANDARD TECHNICAL SPECIFICATIONS MANUAL - DIVISION D, SECTION 116 & SECTION 118. CONNECTIONS TO EXISTING WATER DISTRIBUTION SYSTEMS CAN ONLY OCCUR AFTER THE CITY OF LAREDO UTILITIES DEPARTMENT HAS BEEN NOTIFIED OF PROPOSED CONNECTION, HAS APPROVED TESTING PROCEDURES, AND ALLOWS SUCH CONNECTION BY THE CONTRACTOR.
5. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF LAREDO UTILITIES DEPARTMENT ANY VALVE SHUT-OFF LOCATIONS AND SHUT-OFF TIMES.
6. WET CONNECTIONS MUST BE MADE IN THE PRESENCE OF THE CITY OF LAREDO UTILITIES INSPECTOR. PROVIDE AT LEAST 48 HOUR ADVANCE NOTICE.
7. PROPOSED FIRE HYDRANTS CALLED OUT ON THESE PLANS IMPLY THE INSTALLATION OF A COMPLETE FIRE HYDRANT ASSEMBLY AS PER THE CITY OF LAREDO STANDARD SPECIFICATION MANUAL. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF INSTALLING ALL FIRE HYDRANT ASSEMBLIES INCLUDING THE CONNECTION TO THE MAIN LINE.
8. ALL WATER SERVICES SHALL BE MAINTAINED ACTIVE THROUGH THE DURATION OF THE PROJECT. ANY WORK THAT REQUIRES THE WATER SERVICES TO BE SHUT-OFF SHALL BE COORDINATED WITH THE CITY OF LAREDO UTILITIES DEPARTMENT. ANY SERVICE SHUT-OFFS WILL ONLY BE ALLOWED DURING NIGHT-TIME HOURS FOR A PERIOD OF TIME NO LONGER THAN 4 HOURS. ANY RESIDENTS WHO WILL BE IMPACTED BY THE SERVICE SHUTOFF SHALL BE NOTIFIED NO LESS THAN 24 HOURS IN ADVANCE.
9. THE CONTRACTOR SHALL INSTALL ALL DEAD WATERLINE CAPS WITH A 2" TEMPORARY BLOW-OFF HYDRANT.

LEGEND

BUILDING LINE	
CURB & GUTTER	
CONCRETE PAVEMENT	
CONCRETE FLATWORK (SIDEWALK/RIPRAP)	
ASPHALT PAVEMENT	
COORDINATE POINT	○ 1
FENCELINE	—x—x—
HANDRAIL	—o—o—
TREE	
SIGN	

ABBREVIATIONS:
- FF = FINISH FLOOR
- BC = BACK OF CURB
- BLDG = BUILDING
- FL = FLOWLINE
- INV = INVERT
- NG = NATURAL GROUND
- RIM = RIM ELEVATION
- SW = SIDEWALK
- TC = TOP OF CONCRETE

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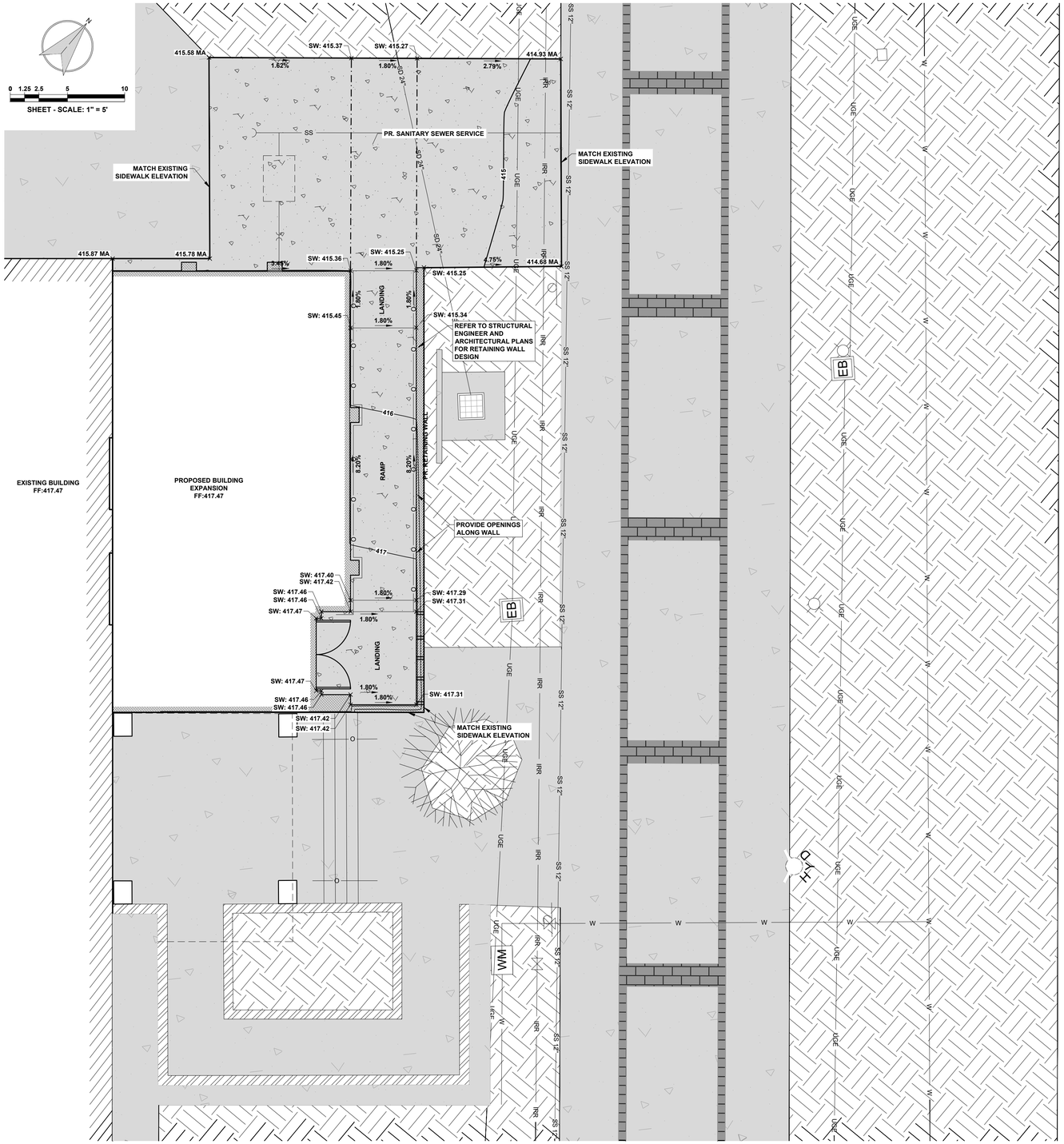
KEY PLAN

UTILITIES PLAN

Drawn by:	J.A.B.
Checked by:	E.L.O.
Project number:	25-14
Project Issue Date:	09/16/2026

C5.0

Scale: As indicated



1 **PLAN - GRADING PLAN**
SCALE: 1" : 5'

NOTE:

1. **ALL SIDEWALKS AND ADA RAMPS SHALL CONFORM TO AMERICANS WITH DISABILITIES ACT (ADA). CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.**
2. **THE SLOPE OF THE SIDEWALKS SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 5% OR A CROSS SLOPE OF 2%.**
3. **RAMPS SHALL NOT EXCEED A LONGITUDINAL SLOPE OF 8.33% OR A CROSS SLOPE OF 2%.**
4. **CONTRACTOR SHALL ENSURE THAT THE SLOPE OF THE FINISHED SURFACE OF THE CONCRETE IN THE FIRST FIVE FEET OUTSIDE DOORS DOES NOT EXCEED 2%.**

LEGEND

BUILDING LINE	
CURB & GUTTER	
CONCRETE PAVEMENT	
CONCRETE FLATWORK (SIDEWALK/RIPRAP)	
ASPHALT PAVEMENT	
CONTOUR (MAJOR)	450
CONTOUR (MINOR)	448
EXISTING CONTOUR (MAJOR)	450
EXISTING CONTOUR (MINOR)	448
GRADE	2.0%
SPOT ELEVATION	× 450.00 TC
GRADE BREAK	
RIDGE LINE	
FLOWLINE	

ABBREVIATIONS:
FF = FINISH FLOOR
BC = BACK OF CURB
MA = MATCH EXISTING ELEVATION
FG = NATURAL GROUND
SW = SIDEWALK
TC = TOP OF CONCRETE

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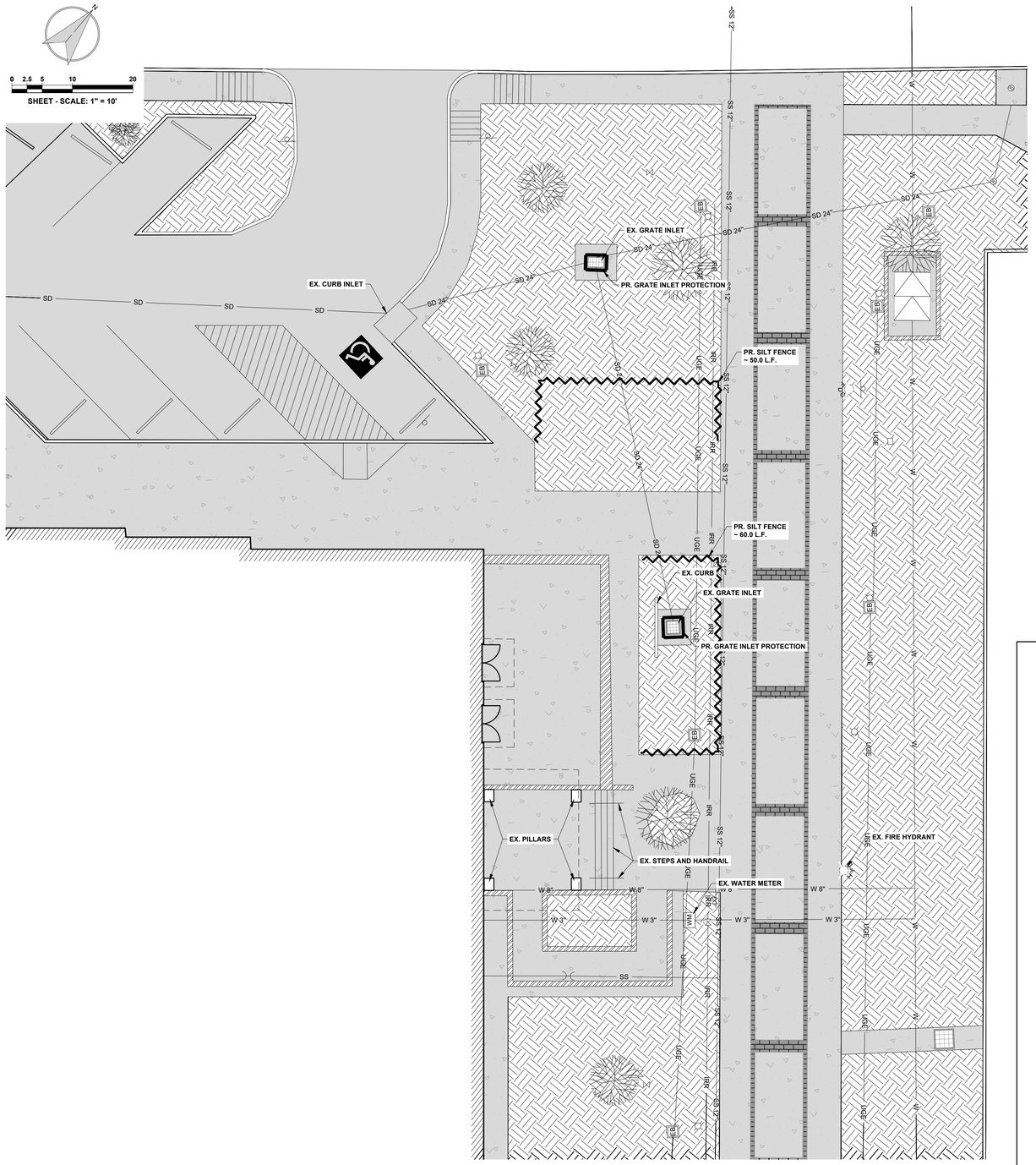
KEY PLAN

GRADING PLAN

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C6.0

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LEGEND	
SILT FENCE	
ROCK FILTER DAM - TYPE 2	
EROSION CONTROL BLANKET	
CONSTRUCTION ENTRANCE	
SEDIMENT LOG	

STORM WATER POLLUTION PREVENTION PLAN NOTES

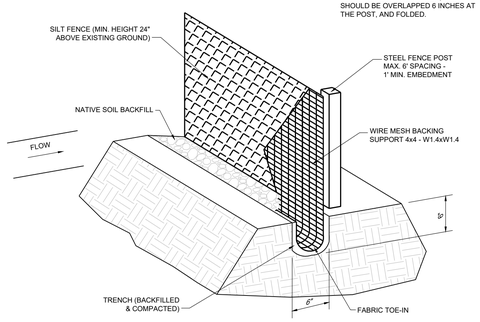
THE CONTRACTOR SHALL PROVIDE SILT FENCING PROTECTION AND APPROPRIATE SWPPP APPURTENANCES FOR SITE IMPROVEMENTS AND DEMOLITION ACTIVITIES. SILT FENCING AND SWPPP APPURTENANCES SHALL BE MAINTAINED THROUGHOUT THE PROJECT CONSTRUCTION ACTIVITIES. STORMWATER POLLUTION PROTECTION ACTIVITIES SHALL ADHERE TO THE CITY OF LAREDO REQUIREMENTS AND/OR ANY STATE REQUIREMENT GOVERNING STORMWATER POLLUTION PREVENTION.

1. CONTRACTOR SHALL MAINTAIN AND PROTECT THE STORM WATER POLLUTION PREVENTION APPURTENANCES, AS IDENTIFIED ON THESE PLANS, THROUGHOUT ALL CONSTRUCTION ACTIVITIES.
2. CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNER OF ANY FUEL SPILLS THAT HAVE OCCURRED WITHIN THE PROJECT/CONSTRUCTION AREA, BOTH VERBALLY AND IN WRITING. CONTRACTOR SHALL PROVIDE TO THE OWNER ANY NECESSARY ACTIONS TO REMEDY THE PROBLEM.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING OF FUELS, DEBRIS, AND EXCAVATION MATERIAL IN A LEGALLY APPROVED MANNER.
5. CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS SPECIFIED HEREIN, AT A MINIMUM, ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT THAT MEETS OR EXCEEDS 0.5 INCHES/24 HOUR PERIOD.
6. CONTRACTOR SHALL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS, AND OTHER POTENTIALLY TOXIC MATERIALS.
7. CONTRACTOR SHALL PROVIDE FOR ADEQUATELY MAINTAINED SANITARY FACILITIES ONSITE.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION, IDENTIFICATION, AND REMOVAL OF ALL STORM WATER POLLUTION PREVENTION IMPROVEMENTS.
9. ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE AND DEBRIS SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND POWER WASHING MUD AND/OR DIRT TRACKED ONTO EXISTING PARKING LOT AND STREETS BY HIS WORKMAN'S SUPPLIERS OR SUBCONTRACTOR'S VEHICLES; PARKING LOT AND STREETS SHALL BE CLEANED WITHIN 24 HOURS OF WHEN THE TRACKING OCCURS.
11. CONTRACTOR SHALL SUBMIT IN WRITING ANY MODIFICATIONS TO THIS PLAN FOR APPROVAL BY THE ENGINEER.
12. CONTRACTOR SHALL ADHERE TO THE STATE STORM WATER REQUIREMENT FOR MINIMUMS AND DIMENSIONS NOT SHOWN ON THE PLANS.
13. CONTRACTOR SHALL PREPARE AND SUBMIT THE REQUIRED "NOTICE OF INTENT" (NOI) AND "NOTICE OF TERMINATION" (NOT) FORMS TO THE APPROPRIATE CITY AND STATE DEPARTMENTS.
14. CONTRACTOR SHALL KEEP A COPY OF THIS PLAN ONSITE WITH RED-LINE MARKINGS IDENTIFYING CHANGES OR ADDITIONS TO THE PLAN UNTIL PROPER CLEARANCE OF THE PROJECT IS GIVEN.
15. CONTRACTOR SHALL INSTALL STORM WATER POLLUTION PREVENTION CONTROLS AND SUBMIT NOTICE OF INTENT PRIOR TO ANY SITE PREPARATION WORK (DEMOLITION, EXCAVATION, GRUBBING, ETC.)
16. CITY OF LAREDO MAY ELECT TO IMPROVE ON APPROPRIATE SILT FENCING LAYOUT AS SHOWN; DECISIONS REGARDING SUCH IMPROVEMENTS WILL BE LEFT TO THE DISCRETION OF SAID ENTITY. THE CITY SHALL CONSULT WITH ENGINEER PRIOR TO ANY MODIFICATIONS TO THE SILT FENCING LAYOUT.
17. DUE TO EROSION ISSUES, NO UNPROTECTED SLOPES GREATER THAN 8:1 WILL BE ALLOWED. IF GREATER SLOPES ARE NECESSARY, EITHER EROSION CONTROL BLANKETS IN CONJUNCTION WITH HYDROMULCH OR SOD WILL ALLOW FOR A SLOPE UP TO 3:1.
18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL DUST CONTROL MEASURES FOR PROJECT AT ALL TIMES
19. CONTRACTOR TO PROVIDE TRAFFIC DRAWING TO ACCESS TO THE SITE. CONTRACTOR TO HAVE A PERSON TO FLAG OR DIRECT TRAFFIC DURING HEAVY EQUIPMENT MOBILIZATION THROUGH SITE; BARRICADE WHERE NECESSARY.
20. UPON COMPLETION OF STORM SEWER STRUCTURES AND CONCRETE OUTFALLS, CONTRACTOR SHALL INSTALL STORM WATER POLLUTION PREVENTION CONTROLS AS SHOWN ON PLAN.

NOTES

- IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAXIMUM.

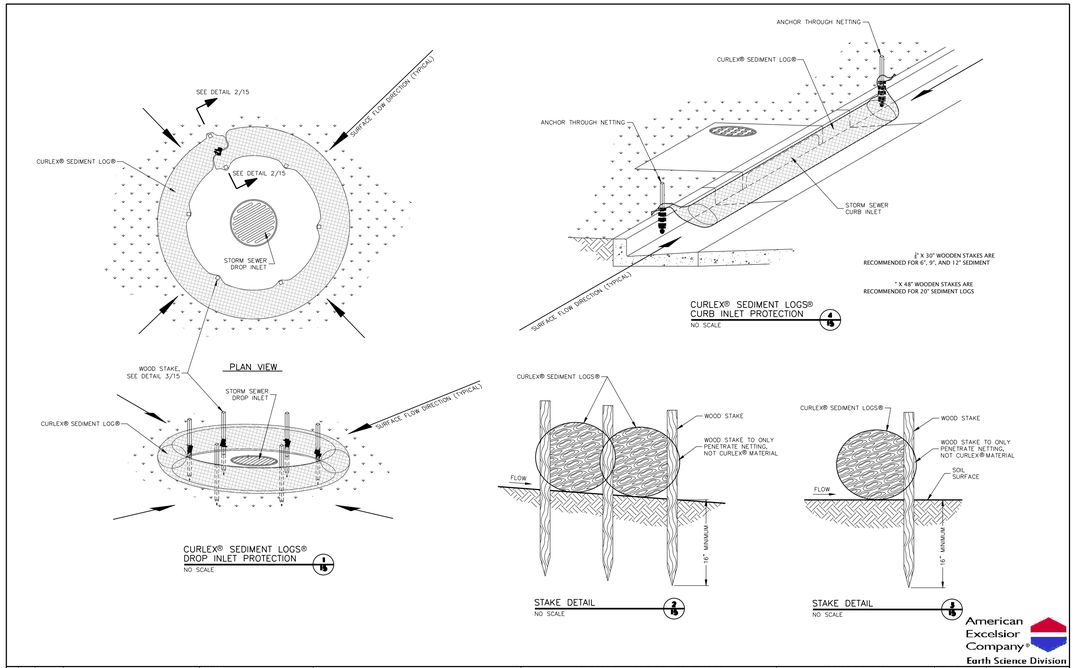
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POST, AND FOLDED.



SILT FENCE FABRIC PHYSICAL PROPERTIES TESTING METHODS

PHYSICAL PROPERTY		TEST METHOD		SILT FENCE
1). TENSILE STRENGTH, lb		ASTM D 4632		90 MIN
2.) ELONGATION @ YIELD, %		ASTM D 4632		100 MIN
3.) TRAPEZOIDAL TEAR, lb		ASTM D 4533		35 MIN
4.) APPARENT OPENING SIZE		ASTM D 4751		50-80 MIN
5.) PERMITTIVITY, SEC^{-1}		ASTM D 4491		1 MIN
6.) ULTRAVIOLET STABILITY ORIGINAL TENSILE STRENGTH RETAINED AFTER 500 HOURS EXPOSURE, %		ASTM D 4355		80 MIN

DETAIL - TYPICAL SILT FENCE
SCALE: NTS



American Excelsior Company®
Earth Science Division

NO.	BY	DATE	REVISIONS
			PROJECT MANAGER
			CHECKED BY:
			APPROVED BY:

AMERICAN EXCELSIOR COMPANY
ARLINGTON, TEXAS

SHEET DESCRIPTION: **CURLEX® SEDIMENT LOGS® INLET PROTECTION DETAILS**

DATE: 8/14/03 | DRAWN BY:
SCALE: NONE | PROJECT NO.: | SHEET NO.: 15

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CONSTRUCTION DOCUMENTS

ENGINEERS
PLANNERS
SCIENTISTS
CONSTRUCTION MANAGERS
KCI TECHNOLOGIES
7109 N. Bartlett Avenue, Suite 201
Laredo, Texas 78041
Phone: (956)729-7844
TBPE Registration No. F-10573
TBLS Firm No. 10194365

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No.	Description	Date

STATE OF TEXAS
EDWARD L. OCHOA
92596
LICENSED PROFESSIONAL ENGINEER
09/16/2026

KEY PLAN

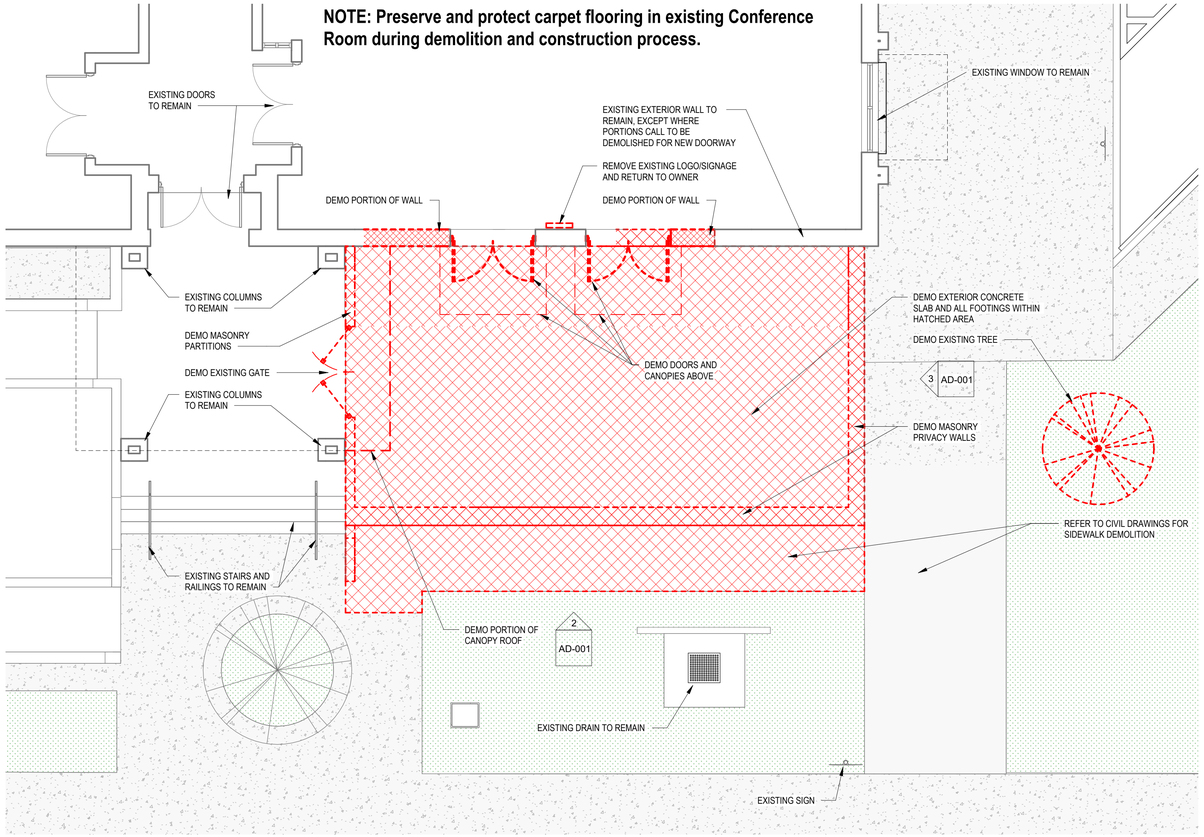
STORM WATER POLLUTION PREVENTION PLAN

Drawn by:	J.A.B.
Checked by:	E.L.O.
Project number:	25-14
Project Issue Date:	09/16/2026

C7.0

Scale: As indicated

NOTE: Preserve and protect carpet flooring in existing Conference Room during demolition and construction process.



1 **DEMO FLOOR PLAN**
3/16" = 1'-0"

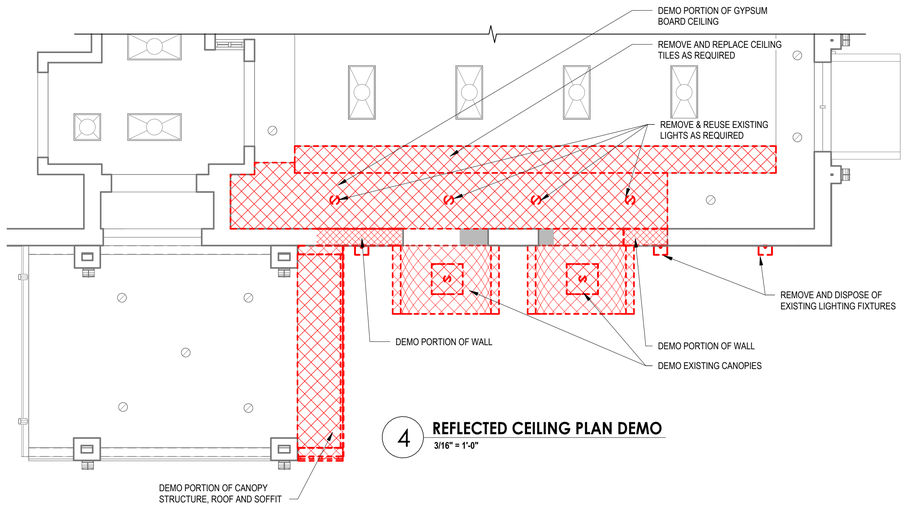
DEMOLITION NOTES

1. PROTECT EXISTING FLOORING, WALLS, CEILINGS, MECHANICAL EQUIPMENT, FIXTURES, DEVICES, ETC., AT ALL TIMES. PROVIDE FLOOR COVERING BOARDS AND PLASTIC BARRIERS AT WALLS THROUGHOUT CONSTRUCTION PROJECT LIMITS.
2. ENSURE ALL SUPPLY AND RETURN GRILLS ARE BLOCKED OFF PRIOR TO ANY DEMOLITION WORK.
3. REPAINT ANY EXISTING WALLS TO REMAIN; AND ANY OTHER AREAS AFFECTED BY CONSTRUCTION ACTIVITY. PLAN TO REPAINT AT LEAST ENTIRE LENGTH OF AFFECTED WALL UP UNTIL NEAREST JOINT, CHANGE IN MATERIAL, OR WALL INTERSECTION.
4. REPLACE ANY EXISTING WALL BASES REQUIRED IF AFFECTED BY CONSTRUCTION ACTIVITY.
5. REFER TO MEP PLANS FOR PLUMBING LINES ROUTES.
6. G.C. TO FIELD VERIFY FLOOR SLAB TRENCH ROUTES WITH STRUCTURAL ENGINEER PRIOR TO DEMO WORK.
7. REFER TO CIVIL ENGINEERING DRAWINGS FOR SIDEWALK & FLATWORK DEMOLITION.

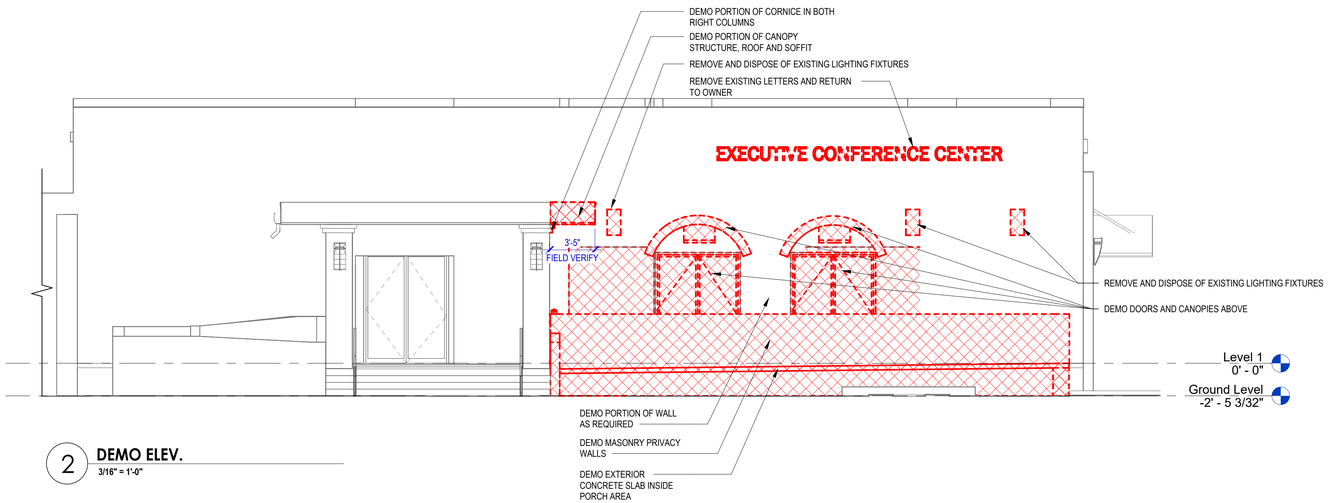
DEMOLITION LEGEND

WALLS TO BE DEMOLISHED

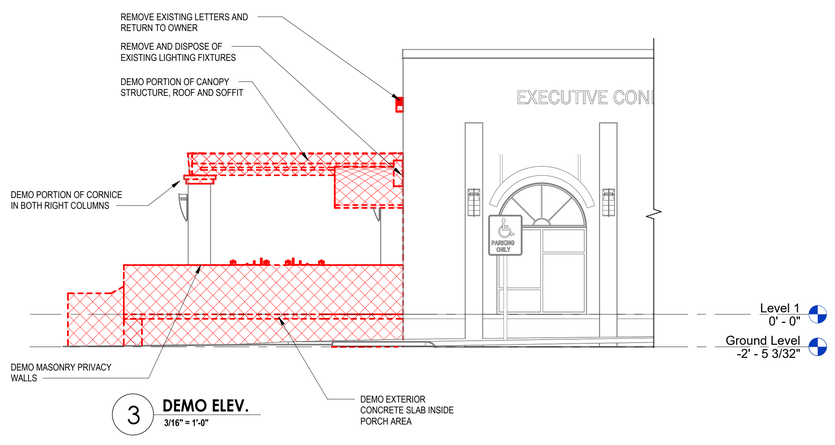
EXISTING WALL TO REMAIN



4 **REFLECTED CEILING PLAN DEMO**
3/16" = 1'-0"



2 **DEMO ELEV.**
3/16" = 1'-0"



3 **DEMO ELEV.**
3/16" = 1'-0"

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CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT — GUILLERMO J. CAVAZOS JR. — 20150 — STATE OF TEXAS

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No.	Description	Date

KEY PLAN

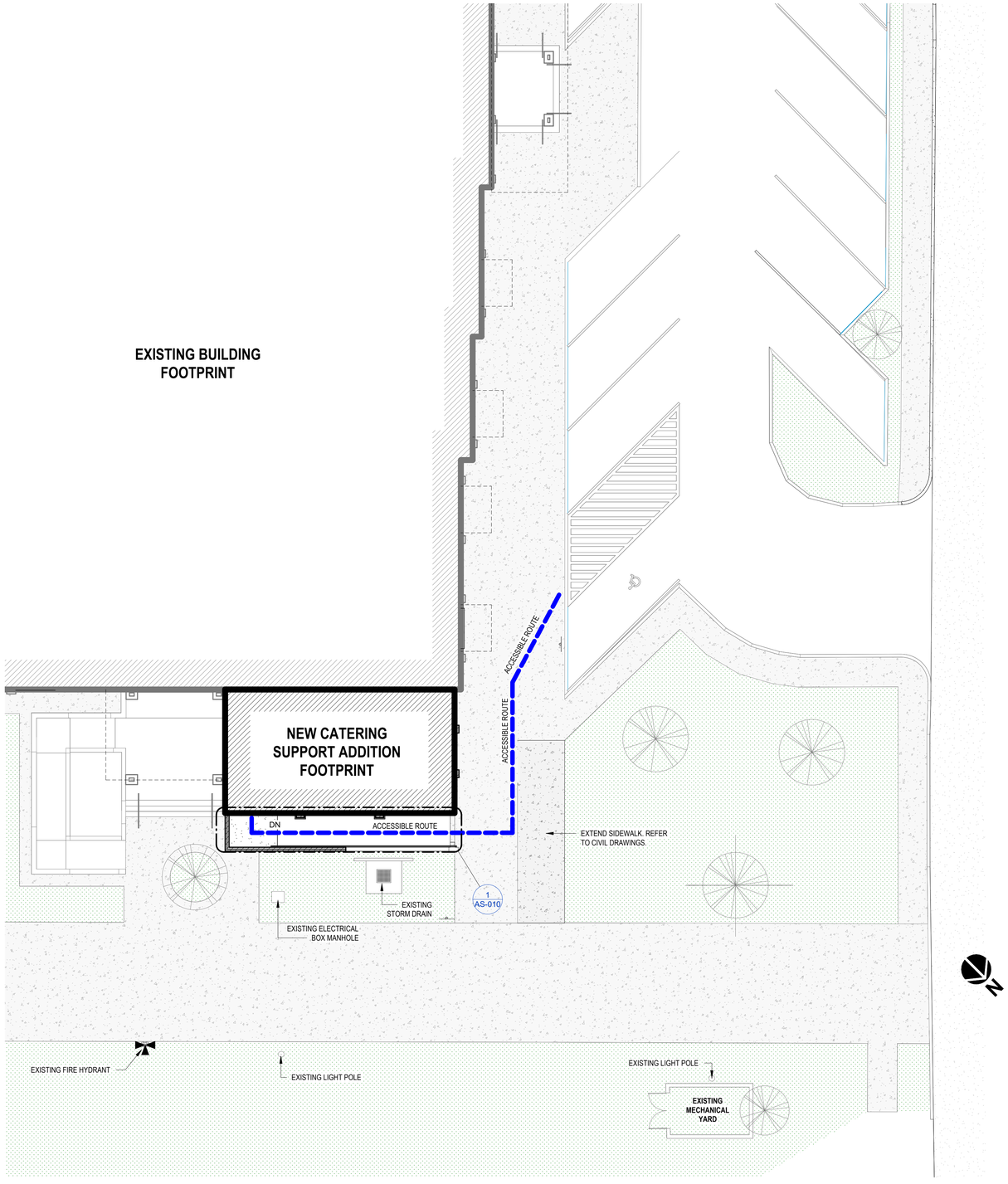
DEMOLITION PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

AD-001

Scale: As indicated

C:\Users\valter\AppData\Local\Autodesk\Revit\Autodesk Revit 2027\CollaborationCache\E6C254VBP3SWU8GB9\cc8ee4c-c8f7-4fec-8854-7ac7395727401\c54fb85-3568-4e9b-8f57-0eb0593e9324.rvt
15/09/2026 06:18:25 p. m.



1 **SITE PLAN**
1" = 10'-0"

SITE PLAN GENERAL NOTES

A. REFER TO CIVIL DRAWINGS FOR ADDITIONAL ELEVATIONAL INFORMATION, AND SITE DETAILING FOR FINISH GRADING, PAVING AND SITE UTILITIES NOT SHOWN HERE, ALSO INCLUDING TRAFFIC SIGNAGE AND MARKINGS.
B. REFER TO CIVIL FOR ALL PAVING EXPANSION JOINTS AND CONTROL JOINTS SPACING AT GENERAL WALKS NOT SHOWN ON ARCHITECTURAL.
C. THE CONTRACTOR, IN SUBMITTING A BID FOR THIS WORK, IS ASSUMED TO HAVE THOROUGHLY FAMILIARIZED HIMSELF WITH ALL EXISTING CONDITIONS AT THE PROJECT SITE AND TO HAVE REQUESTED, FROM THE ARCHITECT, CLARIFICATION FOR ANY DISCREPANCIES AND/OR AMBIGUOUS ITEMS ENCOUNTERED AFTER THOROUGHLY READING THE CONSTRUCTION DOCUMENTS. (DRAWINGS & SPECIFICATIONS)
D. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING & PROPOSED DIMENSIONS, CONDITIONS, AND WORK, AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES AND/OR AMBIGUITIES BETWEEN THE CONSTRUCTION DOCUMENTS AND ACTUAL CONDITIONS PRIOR TO PROCEEDING WITH PROCURING AFFECTED MATERIALS OR PROCEEDING WITH THE WORK.
E. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS THAT ARE ON THE DRAWINGS OR ARE PROVIDED BY THE ARCHITECT OR OWNER VERIFY ALL DIMENSIONS BY FIELD MEASUREMENT.
F. VERIFY LOCATION OF ALL EXISTING UTILITIES AND TIE-IN POINTS PRIOR TO PROCEEDING WITH ANY WORK.
G. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION, DIMENSIONS, AND GOVERNING REQUIREMENTS OF UTILITY EASEMENTS.
H. CONTRACTOR SHALL ASSURE ACCESSIBILITY OF FIRE TRUCKS AT ALL TIMES ON ALL PUBLIC STREETS, DRIVEWAYS, AND AREAS DESIGNATED AS FIRE LANES.
I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COSTS AND OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT.
J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL COSTS ASSOCIATED WITH ANY PROTECTION MEASURES THAT WILL BE REQUIRED BY THE CONSTRUCTION/DEMOLITION ACTIVITIES TO SAFEGUARD THE HEALTH, SAFETY AND WELFARE OF THE PUBLIC.
K. ALL UTILITY MANHOLES, FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE PROTECTED DURING THE CONSTRUCTION PERIOD. PROVIDE ACCESS TO THE SAME WHEN NEEDED BY THE UTILITY AGENCIES.
L. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND FAMILIARIZING HIMSELF WITH ALL EXISTING CONDITIONS THAT WILL AFFECT THE DEMOLITION AND CONSTRUCTION OF ALL WORK REQUIRED TO COMPLETE THIS PROJECT.
M. NOT ALL LANDSCAPE, MEP, AND CIVIL SITE WORK AND IMPROVEMENTS SHOWN ON ARCHITECTURAL SITE PLANS. SEE ALSO CIVIL AND MEP DRAWINGS.
N. RESTORE AND FILL TO DESIGN FINISH GRADE WHERE SITE ITEMS AND IMPROVEMENTS REMOVED.
O. COORDINATE CONSTRUCTION SITE FENCING AND EVERY GATE AS REQUIRED BY OWNER.

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Laredo, TX 78040

CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT ☆ GUILLERMO J. CAVAZOS, JR. ☆ 20150 ☆ STATE OF TEXAS

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No.	Description	Date

KEY PLAN

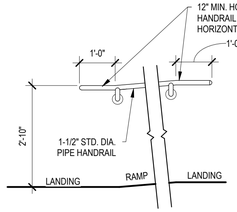
SITE PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

AS-001

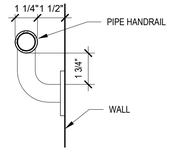
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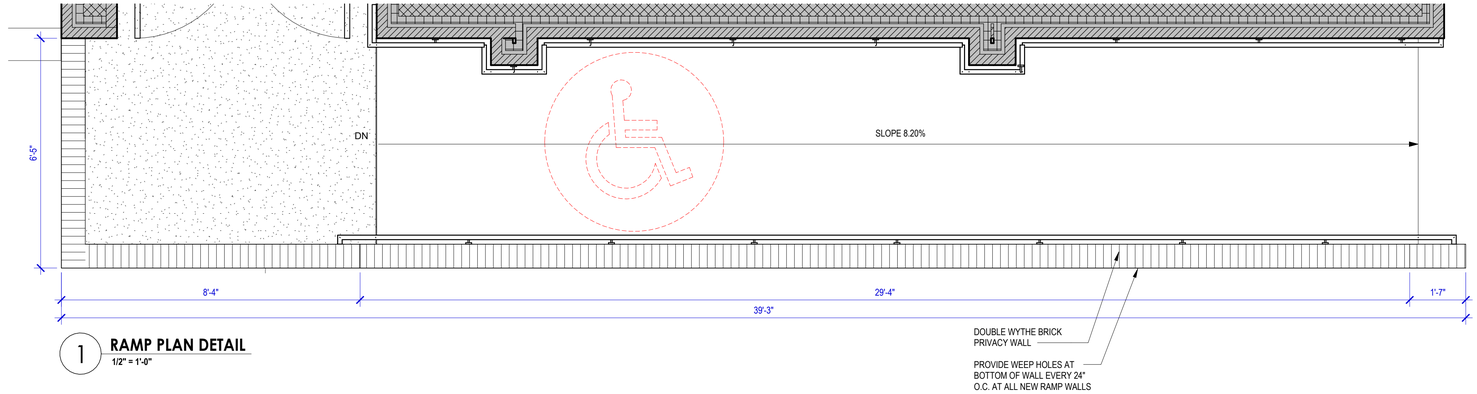
7 ELEV - RAMP - Handrail Extension Detail

1/2" = 1'-0"



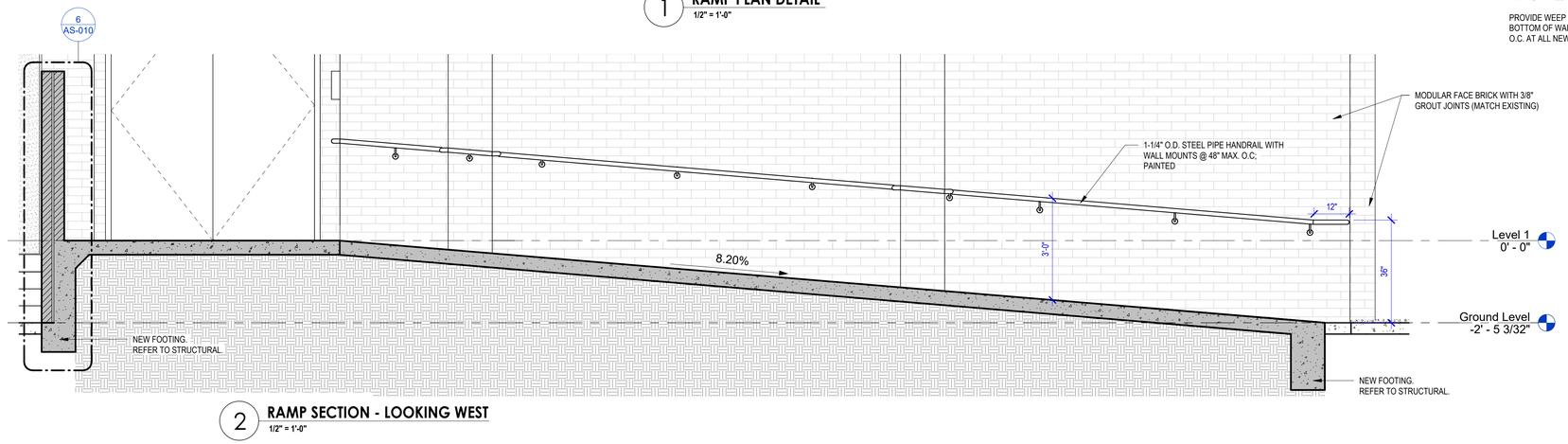
8 SECTION - Wall Mounted Handrail Detail

3" = 1'-0"



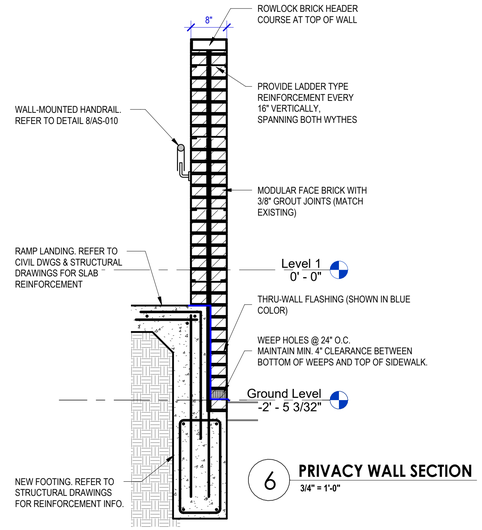
1 RAMP PLAN DETAIL

1/2" = 1'-0"



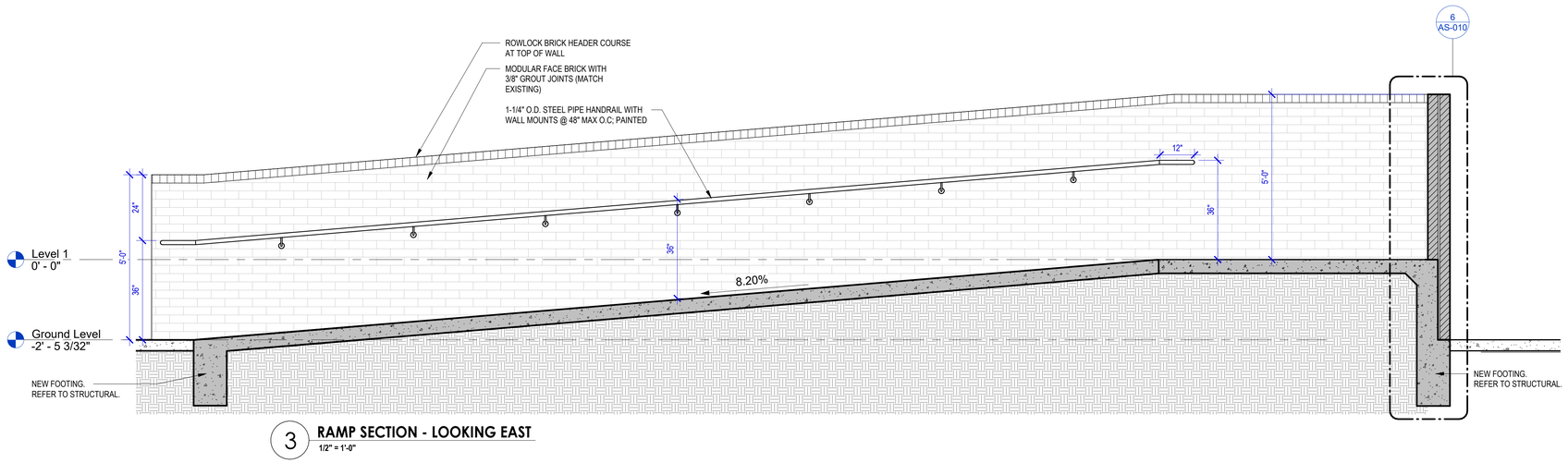
2 RAMP SECTION - LOOKING WEST

1/2" = 1'-0"



6 PRIVACY WALL SECTION

3/4" = 1'-0"



3 RAMP SECTION - LOOKING EAST

1/2" = 1'-0"

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CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT ☆ GUILLERMO J. CAVAZOS JR. ☆ 20150 ☆ STATE OF TEXAS ☆

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No.	Description	Date

KEY PLAN

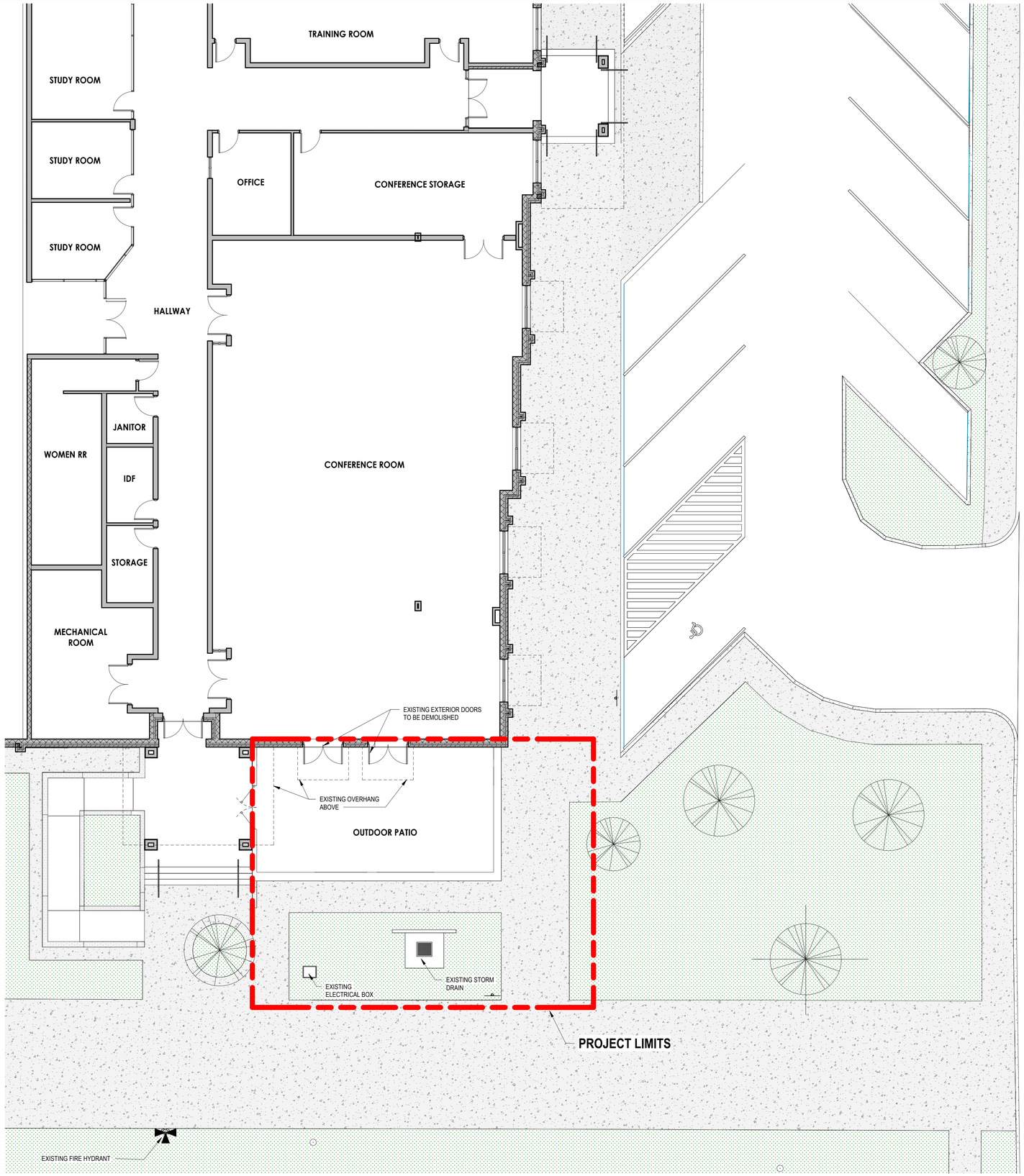
SITE DETAILS

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	9/16/2026

AS-010

Scale: As indicated

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15/09/2026 06:18:27 p. m.



1 **EXISTING FLOOR PLAN**
1/8" = 1'-0"

EXISTING CONDITIONS







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No.	Description	Date

KEY PLAN

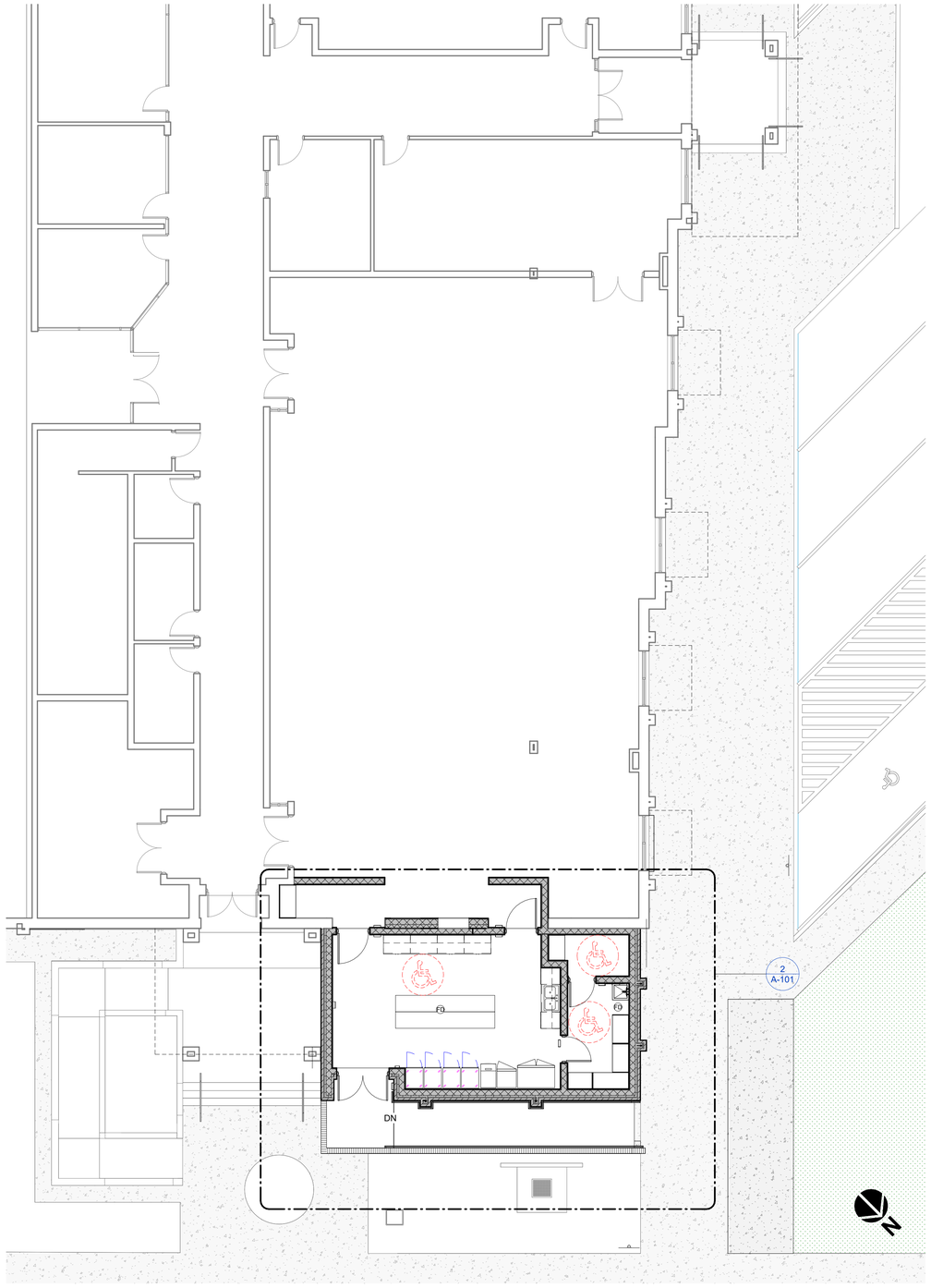
EXISTING CONDITIONS FLOOR PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

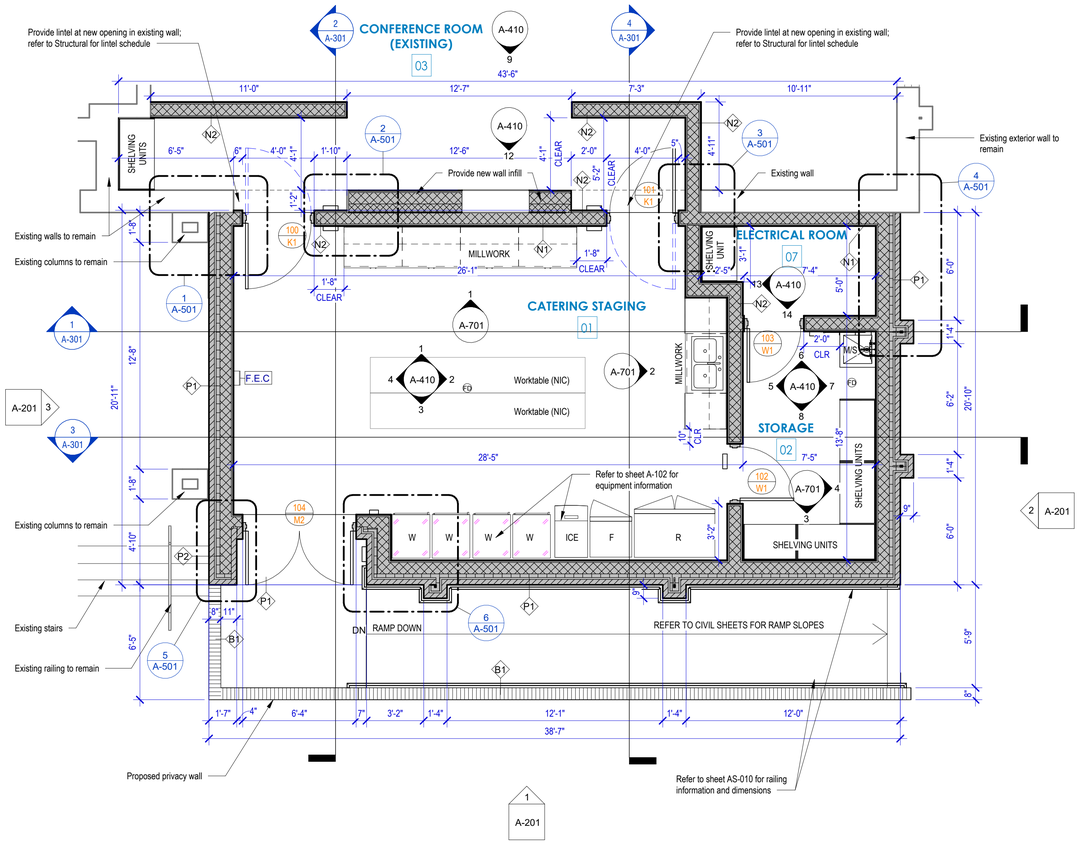
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Scale: 1/8" = 1'-0"

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15/09/2026 06:18:29 p. m.



1 **PROPOSED SITE PLAN**
1/8" = 1'-0"



2 **PROPOSED FLOOR PLAN**
1/4" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. THIS IS A CATERING STAGING AND SUPPORT ROOM. NO COOKING OCCURS IN THIS ROOM. SPACE IS USED FOR TEMPORARY HOT/COLD HOLDING OF PREPARED CATERED FOOD, AND LIMITED WAREWASHING OF CATERING EQUIPMENT/UTENSILS.
B. GRID LINES CORRESPOND WITH STRUCTURAL GRID LINES. REFER TO STRUCTURAL PLANS FOR FURTHER INFORMATION. IN CASE OF CONFLICT, CONTACT ARCHITECT PRIOR TO BIDDING.
C. UNLESS OTHERWISE INDICATED, PLAN DIMENSIONS ARE TO COLUMN GRID ON CENTERLINES, NOMINAL SURFACE OF MASONRY, FACE OF STUDS AND FACE OF CONCRETE WALLS.
D. REFER TO SYMBOL LEGEND ON SHEET G-001 FOR WINDOW, DOOR, WALL, EQUIPMENT TAGS
E. WHERE A DOOR IS LOCATED NEAR CORNER OF ROOM AND IS NOT LOCATED BY DIMENSION ON PLAN OR DETAILS, DIMENSION SHALL BE 3" FROM FACE OF WALL TO FACE OF ROUGH OPENING. DIMENSION SHALL BE 6" FROM FACE OF WALL TO EDGE OF ROUGH OPENING AT CONCRETE WALLS.
F. AT ALL INTERIOR PARTITIONS WHERE PARTITION DOES NOT EXTEND TO ROOF DECK OR FLOOR DECK ABOVE, AND NO INSULATION ABOVE CEILING IS CALLED FOR, BACK LOAD CEILING PANELS WITH LOW-DENSITY FACED FLAME SPREAD R11 BATTS ALONG ENTIRE LENGTH OF PARTITION, FOR A DISTANCE OF 4' FROM THE FACE OF THE PARTITION.
G. REPETITIVE FEATURES ARE NOT DRAWN IN THEIR ENTIRETY AND SHALL BE COMPLETELY PROVIDED AS IF DRAWN IN FULL.
H. FURNITURE N.I.C., SHOWN FOR COORDINATION PURPOSES.
I. RE: STRUCTURAL FOR INFORMATION ON FOUNDATIONS, STRUCTURAL COLUMNS, STRUCTURAL FRAMING & METAL DECKS. SOME STRUCTURAL COLUMNS SHOWN FOR COORDINATION PURPOSES. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
J. DO NOT SCALE DRAWINGS IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING THE WORK.
K. NOTIFY ARCHITECT OF ANY VARIATION REQUIRED IN THE DIMENSIONS NOTES FOR INSTALLATIONS OF EQUIPMENT BEFORE CONTINUING THE WORK.
L. VERIFY DIMENSIONS BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK.
M. PROVIDE BLOCKING AS REQUIRED FOR PROPER SUPPORT OF WALL AND CEILING MOUNTED EQUIPMENT.
N. REFER TO SHEET A-102 FOR ROOM SIGNAGE LEGEND, INTERIOR SIGNAGE MOUNTING AND SIGNAGE NOTES.
O. REFER TO SPECIFICATIONS SECTION 099000 PAINTING & COATING.

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CONSTRUCTION DOCUMENTS

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No.	Description	Date

KEY PLAN

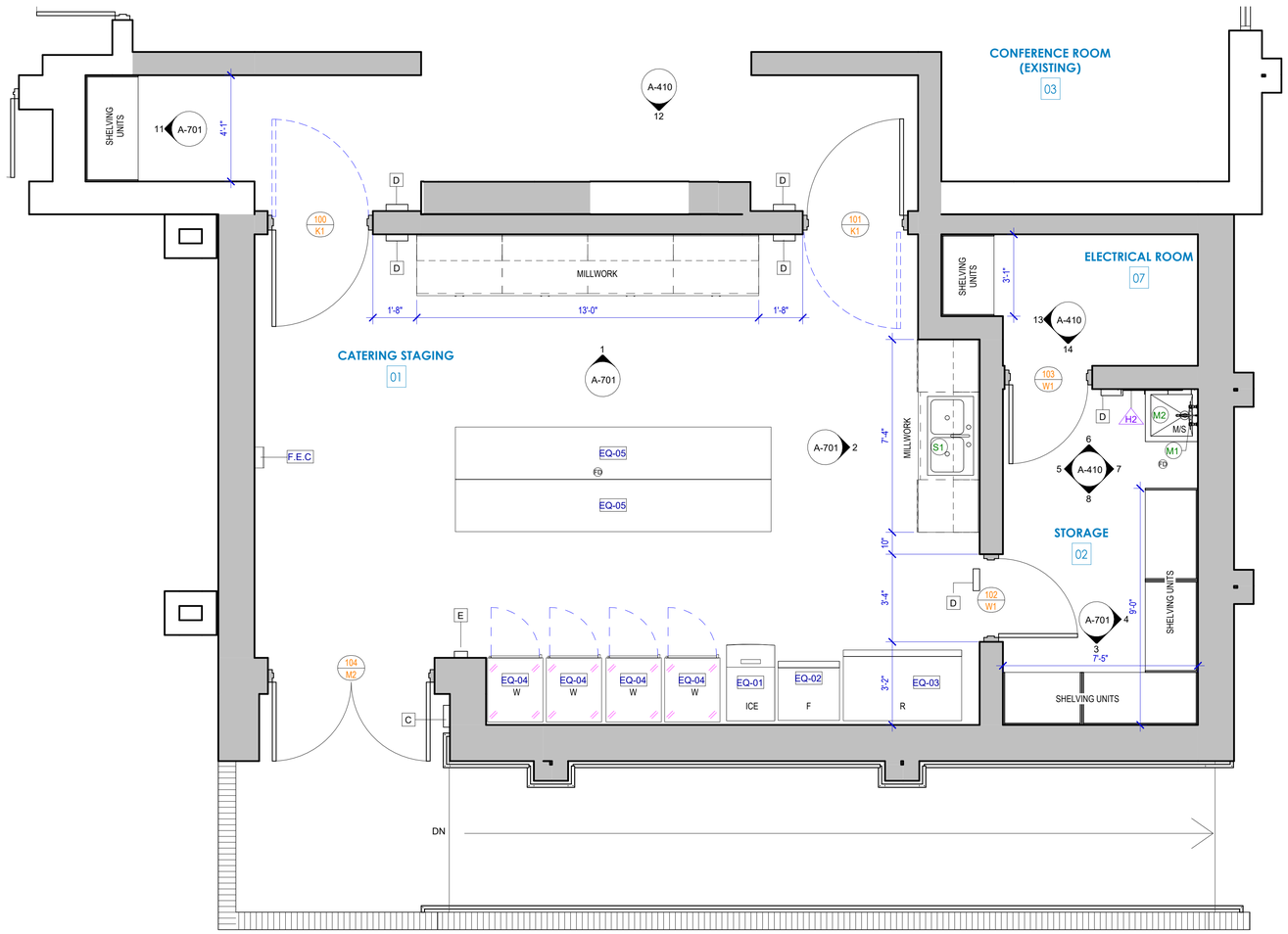
1st FLOOR PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

A-101

Scale: As indicated

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9/15/2026 7:17:55 PM



1 FURNITURE AND EQUIPMENT PLAN
3/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE

Type Mark	Description	ADA	Specification	Comments
M1	Service Sink Faucet		refer to MEP drawings	
M2	Mop Sink		refer to MEP drawings	
S1	Compartment Sink		refer to MEP drawings	

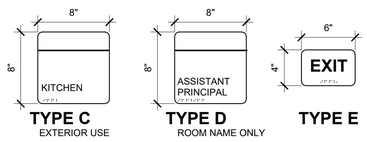
SPECIALTY EQUIPMENT SCHEDULE

Type Mark	Description	Responsibility
EQ-01	Scotsman Prodigy Elite Modular Cube Ice Machine 300lb - Model MC0322	O.P.O.I
EQ-02	FORNO Alta Qualita 28" Right Swing Refrigerator/Freezer Stainless Steel 13.8 cu.ft - Model FFFFD1933-28RS	O.P.O.I
EQ-03	Motak Two-section 54" Reach-in Refrigerator Model #MSD-2DR-BAL-X	O.P.O.I
EQ-04	Vulcan 18 pan non-insulated Cabinet - Model VHFA18	O.P.O.I
EQ-05	Advance Tabco 24"W X 144"L X 36"H Stainless Steel Table with Undershelf - Model MS-2412	O.P.O.I
F.E.C	Fire Extinguisher Cabinet	C.P.C.I

RESTROOM ACCESSORY SCHEDULE

Type	Description	Basis of Design		Responsibility
		Manufacturer	Model	
H2	Utility Hook Strip (4 Hooks) 36" - Surface Mounted	American Specialities, Inc.	1307-4	C.P.C.I

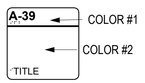
ROOM SIGNAGE SCHEDULE



TYPE C EXTERIOR USE

TYPE D ROOM NAME ONLY

TYPE E

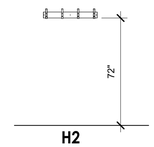


EQUIPMENT & SIGNAGE PLANS GENERAL NOTES

A. THIS IS A CATERING STAGING AND SUPPORT ROOM. NO COOKING OCCURS IN THIS ROOM. SPACE IS USED FOR TEMPORARY HOT/COLD HOLDING OF PREPARED CATERED FOOD, AND LIMITED WAREWASHING OF CATERING EQUIPMENT/UTENSILS.
B. REFER TO MILLWORK ELEVATIONS & DETAILS SHEETS FOR FURTHER INFORMATION.
C. REFER TO EQUIPMENT SCHEDULES SHEET FOR FURTHER INFORMATION ON EQUIPMENT & INTERIOR SIGNAGE.

GENERAL EQUIPMENT NOTES

1. OPOI = OWNER PROVIDED/OWNER INSTALLED
2. CPCI = CONTRACTOR PROVIDED/CONTRACTOR INSTALLED
3. OPCI = OWNER PROVIDED/CONTRACTOR INSTALLED
4. G.C. TO INCLUDE ALL LABOR COSTS INCLUDING LIFT RENTAL IF NECESSARY.
5. WHEN BASIS OF DESIGN INDICATED ON SCHEDULE; "OR EQUAL" PRODUCTS WILL BE ACCEPTED BUT ARE TO BE APPROVED BY ARCHITECT DURING SUBMITTAL PROCESS. REFER TO SPECIFICATIONS SECTION TITLED "SUBMITTAL PROCEDURES" FOR FURTHER INFORMATION.



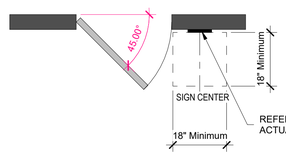
PLUMBING FIXTURE & ACCESSORY MOUNTING HEIGHTS
1/4" = 1'-0"

INTERIOR SIGNAGE SPECIFICATIONS

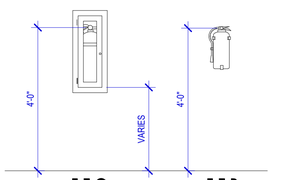
1. SIGNAGE SHALL BE SIMILAR TO OR EQUAL TO: NATIONAL SIGNAGE AFFILIATES CCSW
ARCHITECTURAL GRAPHICS STANDARD SIGN TYPES, ACCENT SERIES WITH VISITOUCH
ADA FONTS.
2. FOR EXTERIOR ROOM SIGNAGE PROVIDE A .080 ALUMINUM SIGN PAINTED WITH MATTHEWS
ACRYLIC POLYURETHANE PAINT AND FINISHED WITH A CLEAR COAT FINISH.
3. PROVIDE A BLANK BACK UP WITH COLOR MATCHING FACE COLOR FOR GLASS MOUNTING.
4. SIGNAGE SUPPLIER TO PROVIDE SHOP DRAWING AND SAMPLE SUBMITTALS FOR APPROVAL.

COLOR SCHEME:

1. BACKGROUND COLORS: *MATCH EXISTING BUILDING*
2. TEXT COLOR: *MATCH EXISTING BUILDING*
3. LINE COLOR: *MATCH EXISTING BUILDING*
4. EDGE COLOR: *MATCH EXISTING BUILDING*
5. FONT: *HELVETICA 721.*
6. RADIUS: *1/2".*
7. MOUNTING: *3M VHB FOAM TAPE/SILICONE.*



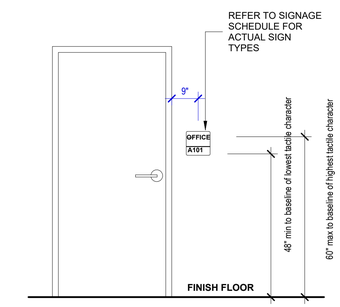
MOUNTING HEIGHT N.T.S.



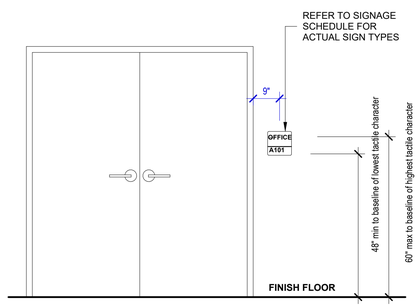
FIRE EXTINGUISHER CABINET FIRE EXTINGUISHER & BRACKET

NOTE: *ALL FIRE EXTINGUISHERS TO BE IN SEMI-RECESSED CABINETS OR ON SURFACE MOUNTED BRACKETS AS PER SPECS*

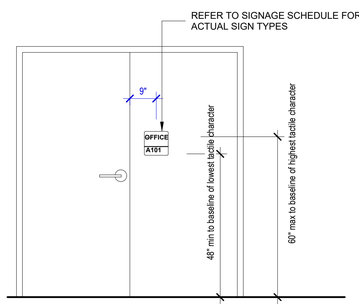
3 FIRE EXTINGUISHER DRAWINGS
1/2" = 1'-0"



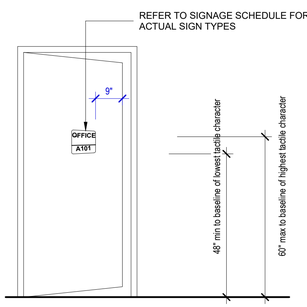
SINGLE DOOR: SIGN SHALL BE MOUNTED NEXT TO DOOR ON THE LATCH SIDE



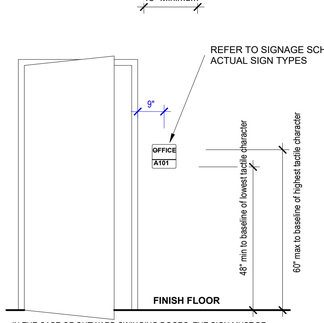
DOUBLE DOORS (TWO ACTIVE LEAVES): SIGN SHALL BE LOCATED TO THE RIGHT OF RIGHT HANDED DOOR.



DOUBLE DOORS (ONE ACTIVE LEAF): SIGN SHALL BE LOCATED ON INACTIVE LEAF.



INWARD SWINGING DOORS: SIGN MAY BE MOUNTED ON DOOR IF THE THREE CRITERIA ARE MET: 1) THE DOOR CLOSES AUTOMATICALLY, 2) THE SIGN IS MOUNTED ON THE PUSH SIDE OF THE DOOR, 3) THE DOOR DOES NOT HAVE A HOLD-OPEN DEVICE. (COMMON EXAMPLES OF DOORS THAT MEET THESE CRITERIA ARE KITCHEN DOORS, REST ROOM DOORS, ETC).



IN THE CASE OF OUTWARD SWINGING DOORS, THE SIGN MUST BE MOUNTED TO THE WALL OUTSIDE OF THE ARC OF THE DOOR SWING. THE SIGN SHOULD BE LOCATED WITHIN AN 18"x18" SQUARE OF CLEAR FLOOR SPACE (18" AWAY FROM THE DOOR AND 18" AWAY FROM WALL). SEE DIAGRAM.

2 SIGNAGE MOUNTING HEIGHTS
1/2" = 1'-0"

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CONSTRUCTION DOCUMENTS

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No.	Description	Date

KEY PLAN

FURNITURE & EQUIPMENT PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

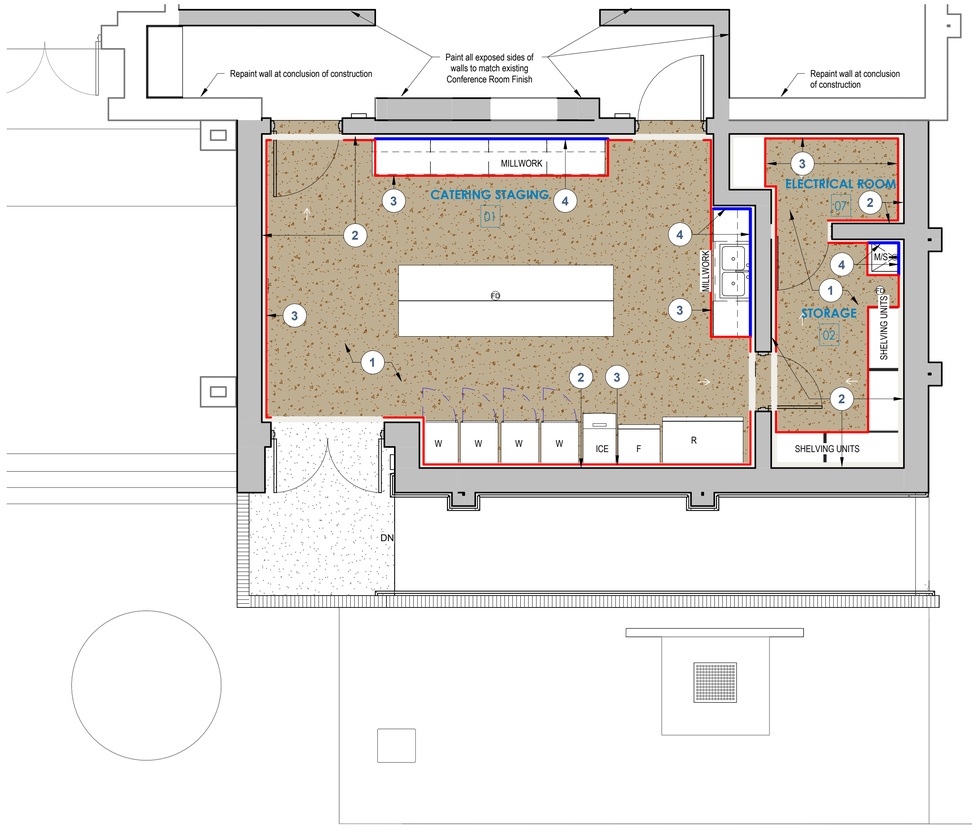
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Scale: As indicated

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NOTE: Preserve and protect carpet flooring in existing Conference Room during demolition and construction process. Any existing finishes damaged by Construction Activities must be replaced by Contractor; replacement material must match existing material closely and be approved by Architect prior to ordering & installation.



1 **FLOOR MATERIALS PLAN**
1/4" = 1'-0"

GENERAL NOTES

1. PRIOR TO ORDERING MATERIALS, **ALL** MATERIAL BRANDS, COLORS AND PATTERNS MUST BE SUBMITTED TO ARCHITECT DURING SUBMITTAL PROCESS FOR FINAL APPROVAL; OWNER MUST APPROVE ALL MATERIAL & COLOR SELECTIONS PRIOR TO G.C. ORDERING MATERIALS.
2. THE INTENT OF THIS SHEET IS TO DESCRIBE FLOOR MATERIALS IN EACH INTERIOR SPACE. THIS VIEW DOES NOT CONTAIN ACTUAL FLOOR TILE PATTERNS OR DESIGNS. A FLOOR TILE PATTERN DRAWING WILL BE PROVIDED IN THE FORM OF AN ASI.
3. **PROVIDE METAL FLOORING TRANSITION STRIPS AS REQUIRED AT ALL FLOOR FINISH TRANSITIONS. TYPICAL**

FLOOR & WALL FINISHES KEYNOTES

1. STAINED CONCRETE FLOORING - "FC" ON FINISHES SCHEDULE
2. WALL PAINT - "PA" ON FINISHES SCHEDULE
3. WALL BASE - "RB" ON FINISHES SCHEDULE
4. TILE BACKSPLASH - "T-1" ON FINISHES SCHEDULE

FINISHES DESCRIPTIONS

Finish Mark	Basis of Design/Description	Specification Section
ACT-2	2' x 4' Fine Fissured Suspended Acoustical Ceiling Tile System; Re: Specs	09 51 00
FC	Stained concrete Finish - KEMIKO Stone Tone Stain "Golden Wheat"; Owner shall have final approval of color selection; include slip-resistant additive	09 97 23
GWB-1	5/8" Type X Gypsum Wall Board	09 21 16
PA	Paint; Re: Specifications	09 90 00
RB	Resilient Base; Roppe 4" Vinyl Wall Base - 691 "Espresso"; Owner shall have final approval of color selection	09 65 13
T-1	Tile Backsplash - Daltile "Arctic White" 3x6 Rectangle; Owner shall have final approval of color & tile selection	09 30 13

ROOM FINISH SCHEDULE

#	ROOM NAME	FLOOR	BASE	WALLS	CEILING	COMMENTS
01	CATERING STAGING	FC	RB	GWB-1, PA, T-1 (Backsplash)	ACT-2	BACKSPLASH AT COUNTERTOPS; PROVIDE MR-RTED SUBSTRATES AT ALL WET-AREA MILLWORK; SILICONE SEALANT JOINTS AT COUNTER-TO-WALL AND COUNTER-TO-EQUIPMENT INTERFACES; SEALED PLUMBING PENETRATIONS THROUGH CABINET FLOORS/BACKS
02	STORAGE	FC	RB	GWB-1, PA, T-1 (Backsplash)	ACT-2	BACKSPLASH (4'H) AT MOP SINK AREA; PROVIDE MR-RTED SUBSTRATES AT ALL WET-AREA MILLWORK; SILICONE SEALANT JOINTS AT COUNTER-TO-WALL AND COUNTER-TO-EQUIPMENT INTERFACES; SEALED PLUMBING PENETRATIONS THROUGH CABINET FLOORS/BACKS

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No.	Description	Date

KEY PLAN

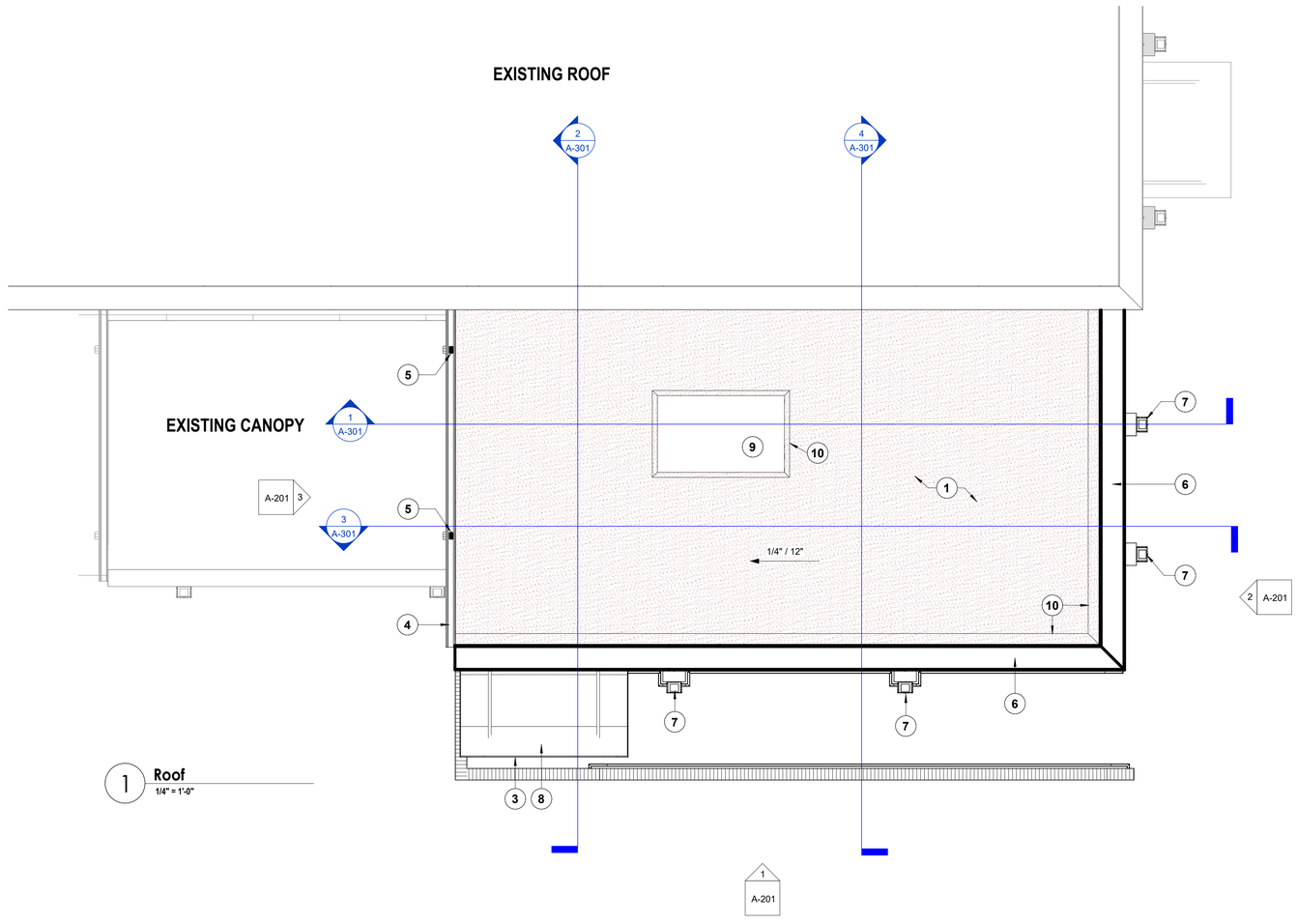
FLOOR MATERIALS PLAN & FINISH SCHEDULE

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

A-103

Scale: As indicated

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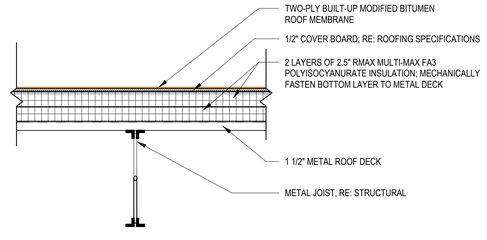
1 **Roof**
1/4" = 1'-0"

ROOF GENERAL NOTES:

A. REFER TO MECHANICAL DRAWINGS FOR VERIFICATION OF PENETRATION, NOT ALL MAY BE SHOWN. PROVIDE ALL FLASHING, GASKETING AND SEALANTS WATER TIGHT CONDITIONS AT THESE EQUIPMENT AND PENETRATIONS PER TYPICAL DETAILS.
B. PROVIDE ALL FLASHING AND TRIM ACCESSORIES FOR WATER TIGHT ROOF CONSTRUCTION. PROVIDE OVERFLOW SCUPPER OR SECONDARY DRAINAGE PATH PER IBC 1611 / IPC 1108.
C. COORDINATE ALL PENETRATION LOCATIONS WITH STRUCTURAL. PROVIDE ALL MISCELLANEOUS STEEL CHANNEL, ANGLE FRAMING SPANNING AND ANCHORED TO STRUCTURAL MEMBERS AS NECESSARY TO SUPPORT AND FRAME OPENING PENETRATION IN THE ROOF DECK.
D. CONTRACTOR TO COORDINATE ALL ROOF TOP MECHANICAL EQUIPMENT, EXHAUST FANS & VENTS ROOF CURB & SUPPORT WITH EQUIPMENT REQUIREMENTS.
E. PROVIDE DOWNSPOUTS WHERE INDICATED ON ELEVATIONS, WITH MTL. SPLASHSPANS AT ALL ROOFTOP DISCHARGE LOCATIONS AND SPLASHBLOCKS AT ALL GRADE LOCATIONS NOT DISCHARGING ON CONCRETE PAVING.
F. REVIEW AND COORDINATE WITH STRUCT. DRAWINGS FOR STRUCTURAL DECK SLOPES.
G. LOCATE PENETRATIONS AND CURBS TO NOT OBSTRUCT VALLEYS AND/OR FLOW FROM DOWNSPOUTS.
H. PREFINISHED METAL GUTTER AND ROOF EDGE COMPONENTS SHALL BE COMPATIBLE WITH THE SPECIFIED SBS MODIFIED BITUMEN ROOF SYSTEM AND ACCEPTABLE TO THE ROOF MEMBRANE MANUFACTURER FOR INCLUSION IN THE ROOF WARRANTY. **BASIS OF DESIGN**: SIPLAST PARAGUARD/PROFORM PERIMETER METAL COMPONENTS, OR APPROVED EQUAL. SHOP-FABRICATED GUTTER ASSEMBLIES MAY BE SUBMITTED AS AN APPROVED EQUAL WHERE THEY MEET SPECIFIED MATERIAL, FINISH, WIND-RESISTANCE, DRAINAGE, AND WARRANTY REQUIREMENTS.

KEYNOTE LEGEND - ROOF PLAN

Number	Description
1	Two-Ply Built-Up Modified Bitumen Roof Membrane
3	Prefabricated metal fascia by Roofing Manufacturer; Color by Architect
4	Prefabricated Metal Gutter (Min. Size 5.5" x 4.5") by Roofing/Sheet Metal Contractor; Color by Architect.
5	Pre-finished Metal Downspouts (Min. size 3" x 4") by Roofing/Sheet Metal Contractor; Color by Architect.
6	Pre-finished metal parapet cap; by Roofing Manufacturer; Color by Architect
7	Wall-mounted light fixtures. Re: Electrical
8	Curved canopy below with Pre-finished Standing Seam Metal Roof System and soffit by MBCI or Architect-approved equal (Match existing roof and soffit panels and color); Refer to Structural Drawings for framing & fastening to structure.
9	Roof-mounted AC Unit. Refer to MEP drawings; Provide roof curb and manufacturer-approved flashing at roof-mounted AC unit. Flash curb into SBS modified bitumen roof system per roof membrane manufacturer 's details and warranty requirements. Coordinate curb with mechanical unit, structural framing, and drainage.
10	Provide Cant Strips at Parapets and Mechanical Equipment curb



2 **TYP. ROOF ASSEMBLY**
1" = 1'-0"

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No.	Description	Date

KEY PLAN

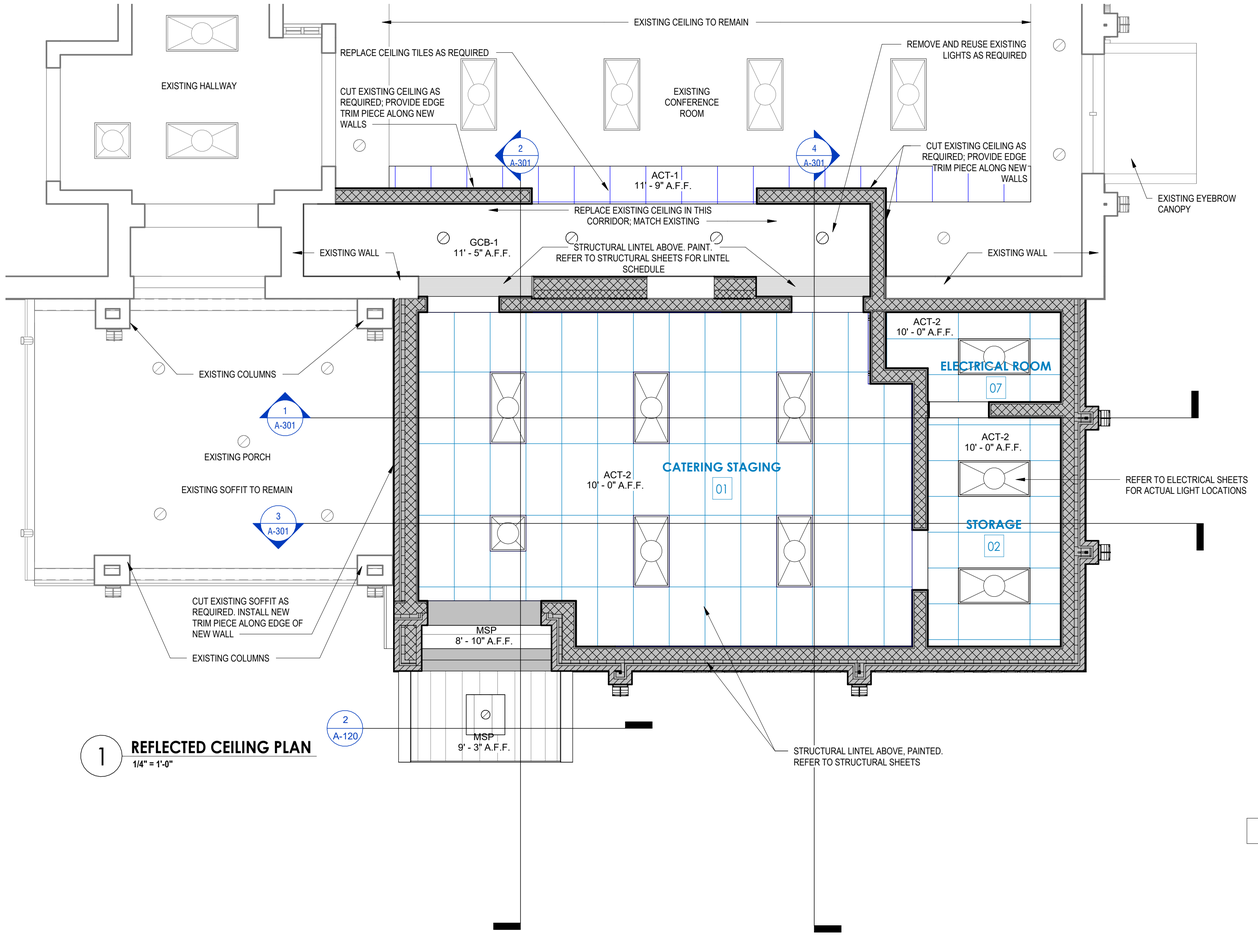
ROOF PLAN

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

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Scale: As indicated

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1 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

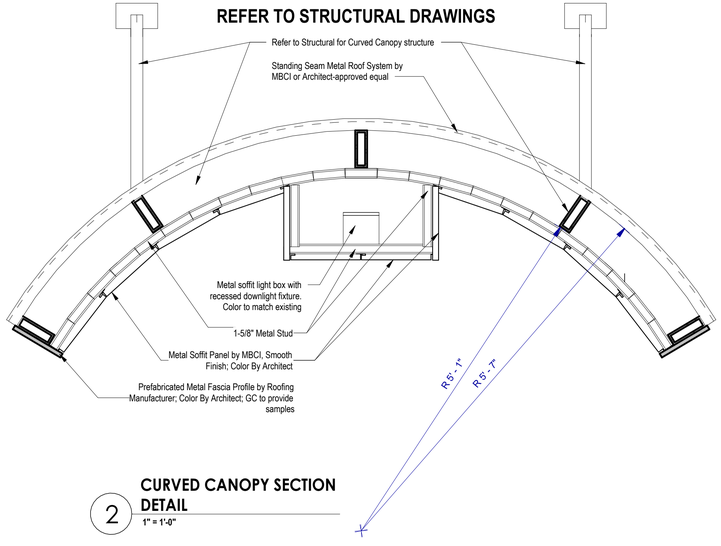
REFLECTED CEILING PLAN GENERAL NOTES

A. REFER TO ELECTRICAL DRAWINGS FOR LIGHTING SCHEDULES & LIGHTING LOCATIONS.
B. REFER TO M.E.P. DRAWINGS FOR DESIGN OF DUCT SIZES, CIRCUITING, ETC., REFLECTED CEILING PLANS TO GOVERN LOCATION OF ITEMS INSTALLED IN CEILINGS, NOTIFY ARCHITECT IN CASE OF CONFLICTS.
C. INSTALL REGISTERS & LIGHTING FIXTURES WITHIN CEILING GRIDS, INSTALL SPRINKLER HEADS, DOWNLIGHT FIXTURES OR OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF CEILING TILES OR CENTER OF CORRIDOR, UNLESS NOTED OTHERWISE.
D. CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. ON CENTER OF CORRIDOR AND CENTERLINE OF LIGHT FIXTURES UNLESS NOTED OTHERWISE.
E. REFER TO MEP DRAWINGS FOR EXIT LIGHTS, SWITCHES, FIRE ALARM PULL, A.D.A. STROBE LOCATIONS, ETC. GC TO COORDINATE WITH OWNER & ARCHITECT FOR FINAL LOCATIONS OF ALL MEP, LIFE SAFETY, I.T./A.V. & SECURITY DEVICES.
F. GEN. CONTRACTOR SHALL PROVIDE THE NUMBER OF SPRINKLER HEADS & LOCATIONS AS REQUIRED BY GOVERNING CODES & AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER, COORDINATE WITH ARCHITECT FOR FINAL LOCATIONS. SPRINKLER HEADS TO BE LOCATED AT CENTER OF CEILING TILES.
G. SUBMIT SPRINKLER HEAD & RISER ROOM (IF REQUIRED) LAYOUT SHOP DRAWINGS.
H. NO ACCESS PANELS ARE TO BE LOCATED IN GYPSUM BOARD CEILING OF LOBBY, VESTIBULE, PUBLIC CORRIDOR.
I. ALL EXTERIOR WALLS SHALL EXTEND TO DECK AND BE SEALED, INCLUDING WALLS ADJACENT TO SOFFITS AND ABOVE DOORS AND WINDOWS.

CEILING SCHEDULE

Type Mark	Description	Specification Section
ACT-1	2' x 2' Suspended Acoustical Ceiling Tile System	match existing
ACT-2	2' x 4' Fine Fissured Suspended Acoustical Ceiling Tile System	09 51 00
GCB-1	5/8" Type X Gypsum Board	match existing; 09 21 16
MSP	Metal Soffit Panels	07 42 93

REFER TO STRUCTURAL DRAWINGS



2 **CURVED CANOPY SECTION DETAIL**
1" = 1'-0"

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No.	Description	Date

KEY PLAN

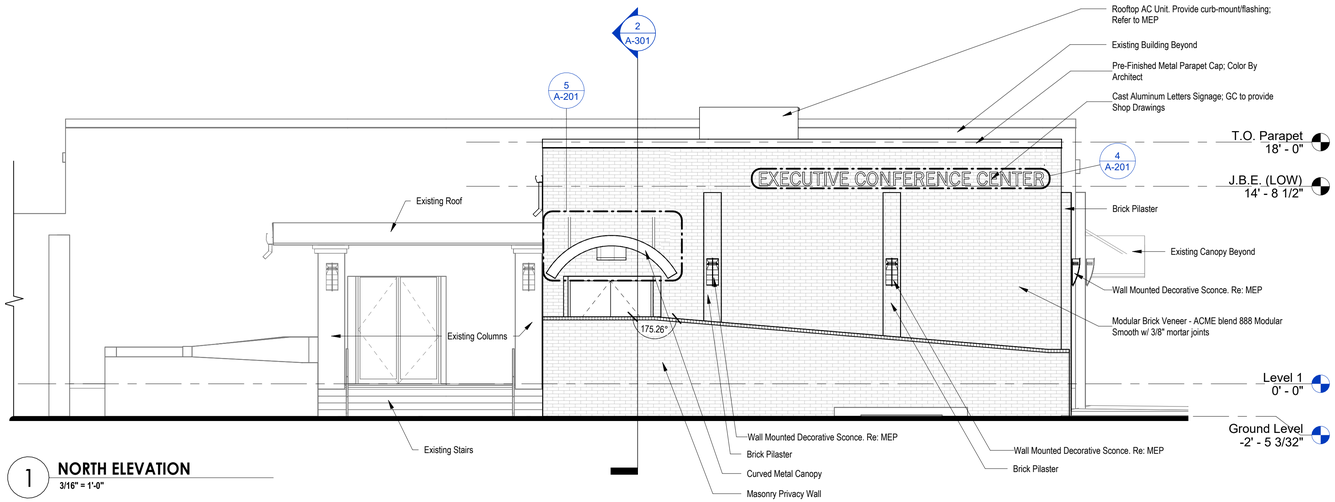
REFLECTED CEILING PLAN

Drawn by:	VMC
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Project Issue Date:	9/16/2026

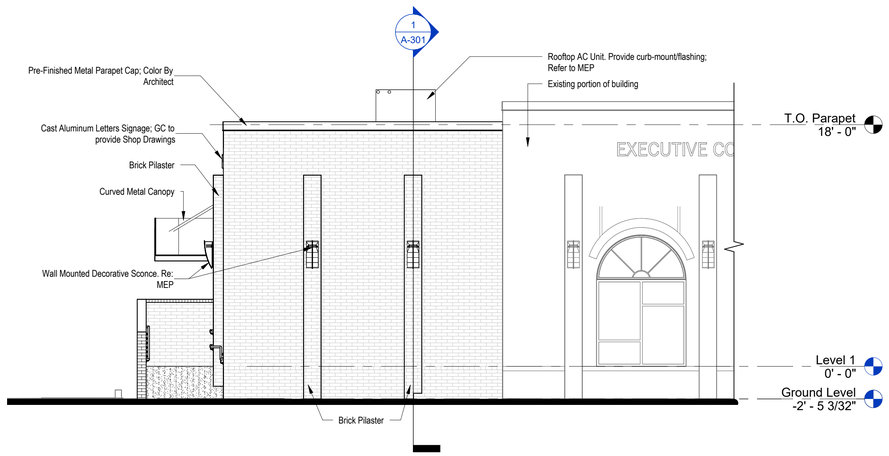
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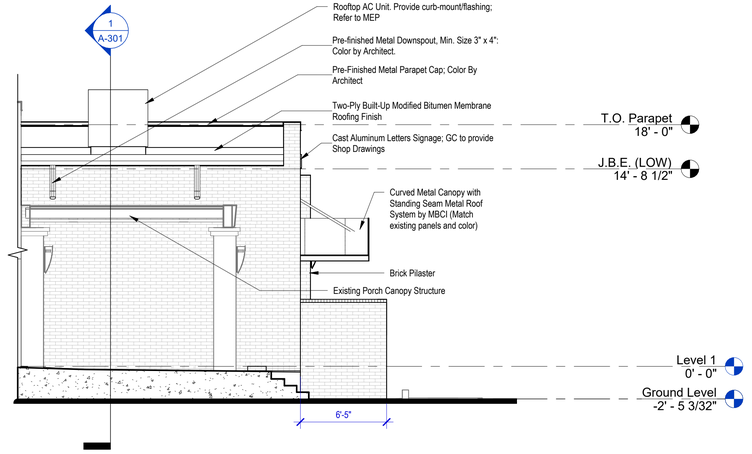
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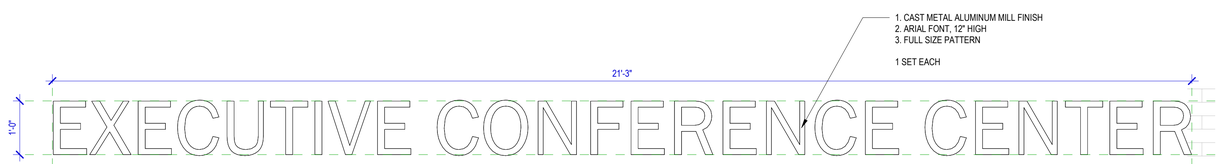
1 **NORTH ELEVATION**
3/16" = 1'-0"



2 **WEST ELEVATION**
3/16" = 1'-0"

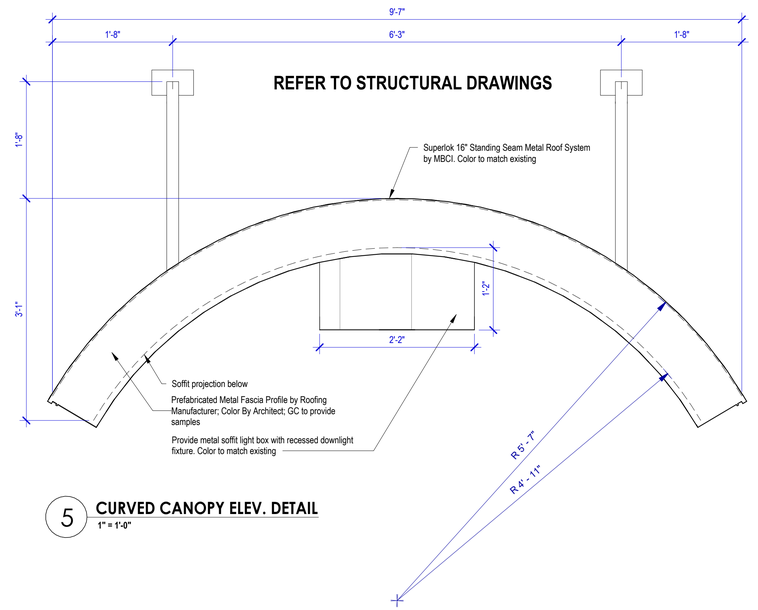


3 **EAST ELEVATION**
3/16" = 1'-0"



1. G.C. TO INSTALL AS PER MANUFACTURER'S RECOMMENDATIONS.
2. G.C. TO PROVIDE SHOP DRAWINGS FOR ALL CAST METAL LETTERING, FOR ARCHITECT'S APPROVAL

4 **LETTERS SIGNAGE**
3/4" = 1'-0"



5 **CURVED CANOPY ELEV. DETAIL**
1" = 1'-0"

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CONSTRUCTION DOCUMENTS

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No.	Description	Date

KEY PLAN

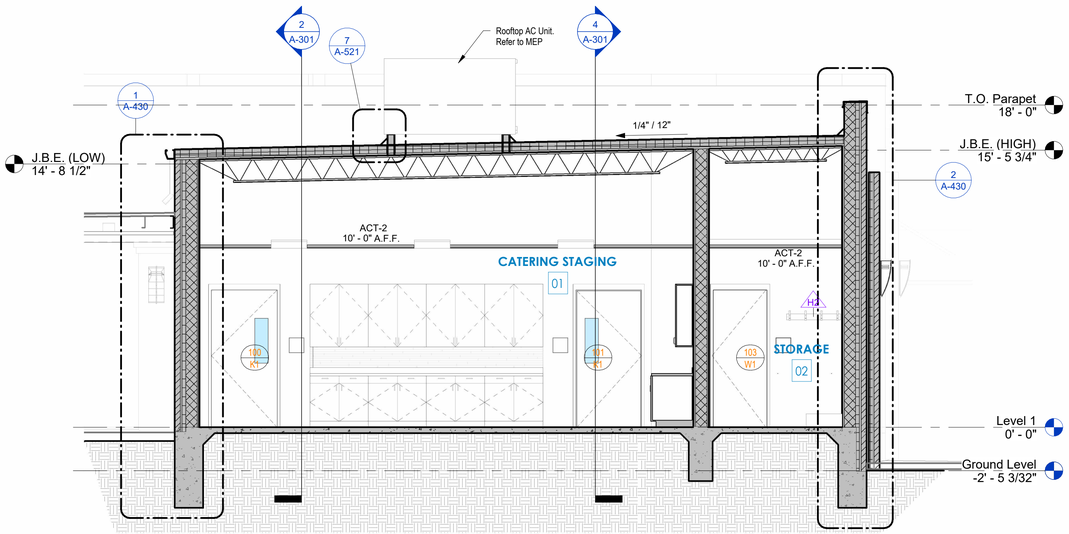
BUILDING ELEVATIONS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

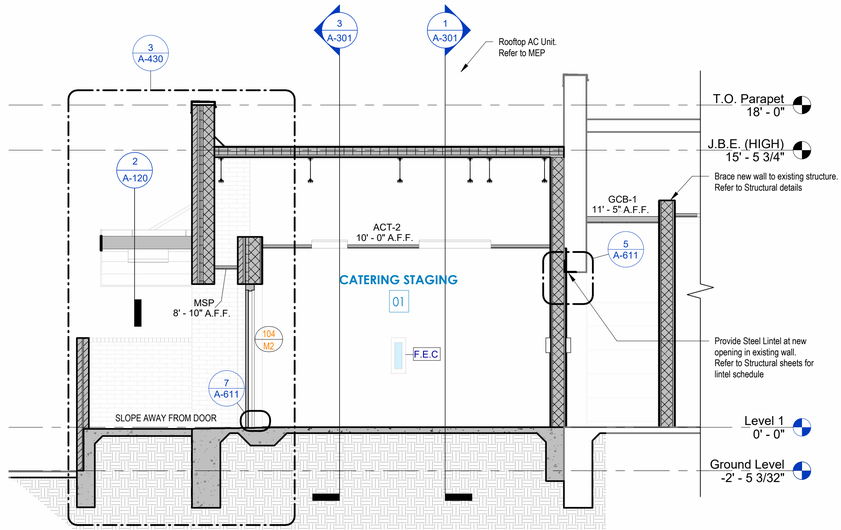
A-201

Scale: As indicated

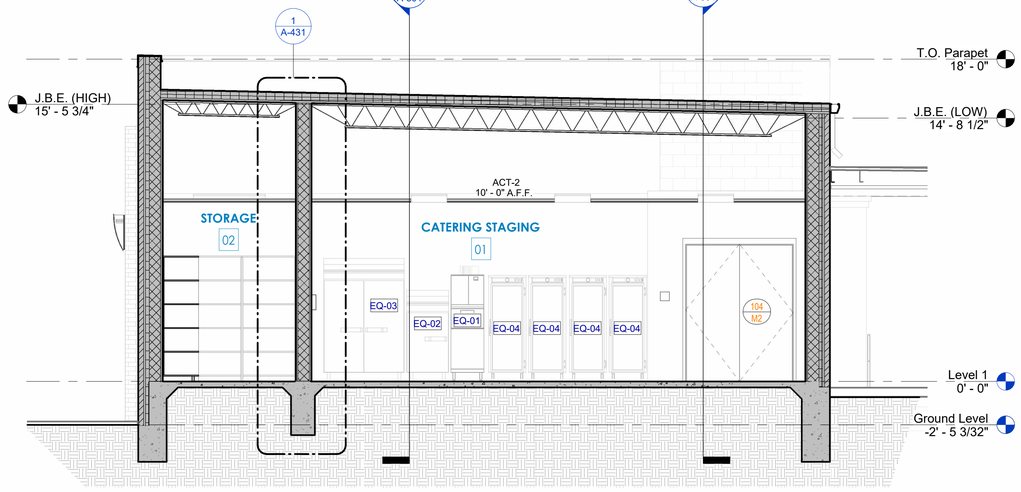
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15/09/2026 06:18:36 p. m.



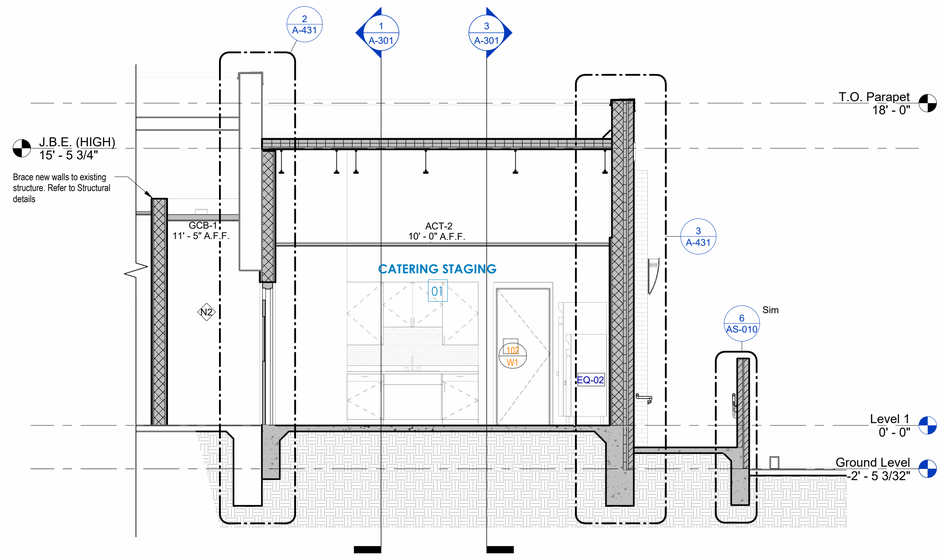
1 **LONGITUDINAL SECTION 1**
1/4" = 1'-0"



2 **TRANSVERSE SECTION 1**
1/4" = 1'-0"



3 **LONGITUDINAL SECTION 2**
1/4" = 1'-0"



4 **TRANSVERSE SECTION 2**
1/4" = 1'-0"

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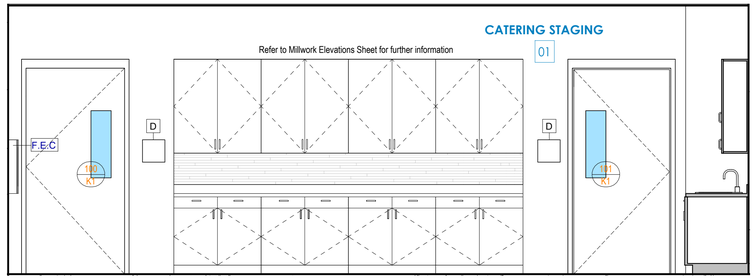
BUILDING SECTIONS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

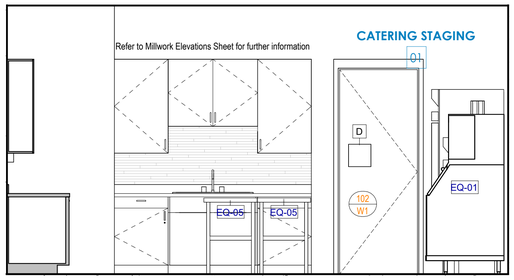
A-301

Scale: 1/4" = 1'-0"

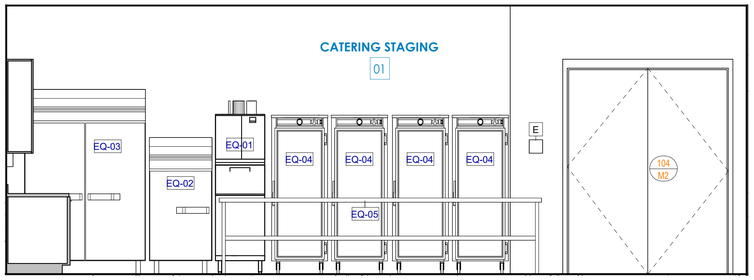
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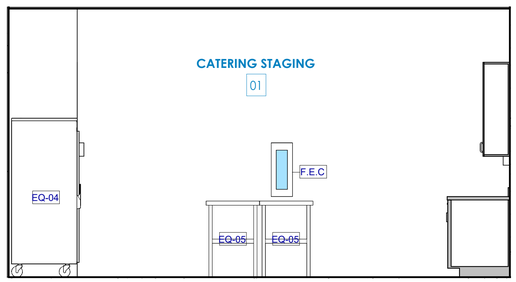
1 KITCHEN ELEV. 1
3/8" = 1'-0"



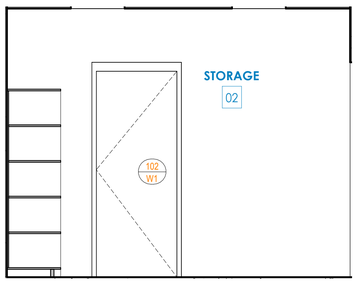
2 KITCHEN ELEV. 2
3/8" = 1'-0"



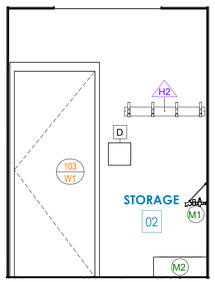
3 KITCHEN ELEV. 3
3/8" = 1'-0"



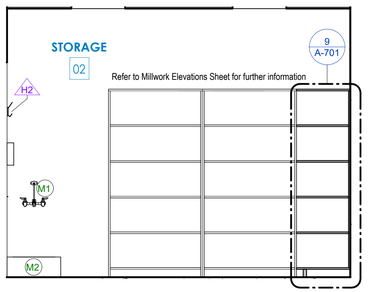
4 KITCHEN ELEV. 4
3/8" = 1'-0"



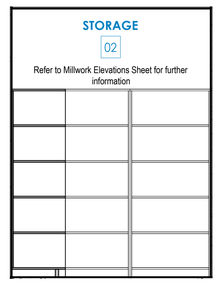
5 STORAGE ELEV. 1
3/8" = 1'-0"



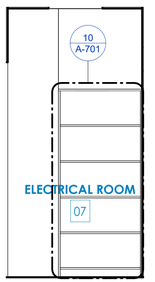
6 STORAGE ELEV. 2
3/8" = 1'-0"



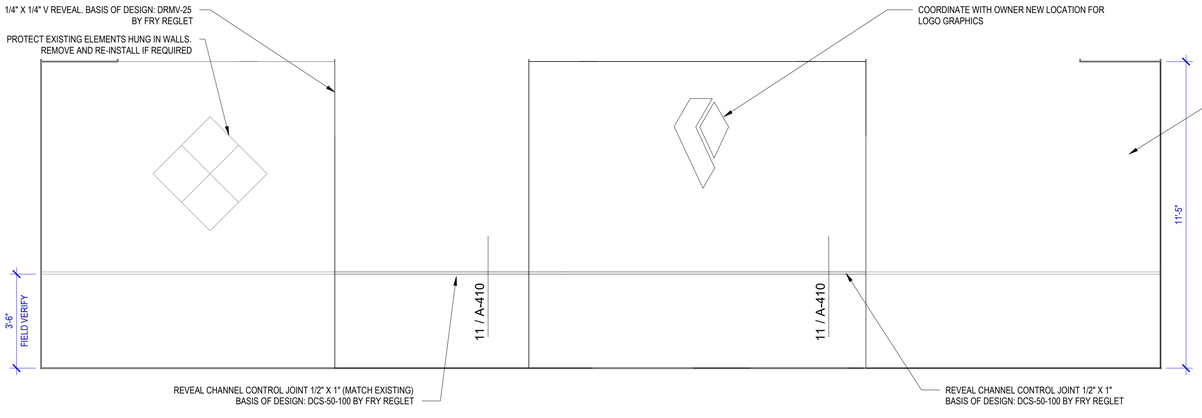
7 STORAGE ELEV. 3
3/8" = 1'-0"



8 STORAGE ELEV. 4
3/8" = 1'-0"



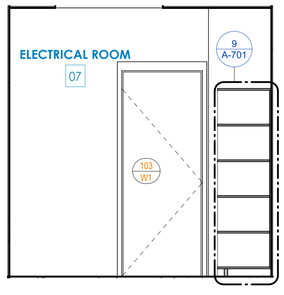
13 ELEC. ROOM ELEV. 1
3/8" = 1'-0"



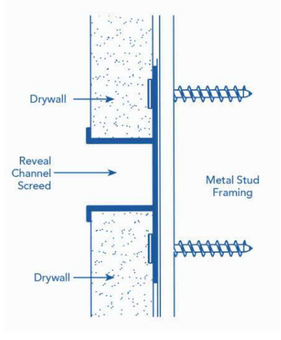
9 CONFERENCE ROOM ELEV.
3/8" = 1'-0"

PLAN TO REPAINT AT LEAST ENTIRE LENGTH OF AFFECTED WALL UP UNTIL NEAREST JOINT, CHANGE IN MATERIAL, OR WALL INTERSECTION. MATCH EXISTING FINISH

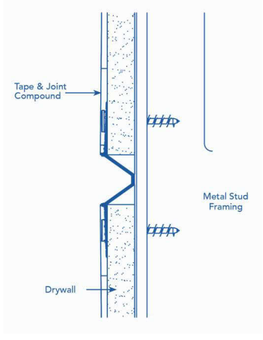
REPLACE ANY EXISTING WALL BASES REQUIRED IF AFFECTED BY CONSTRUCTION ACTIVITY.



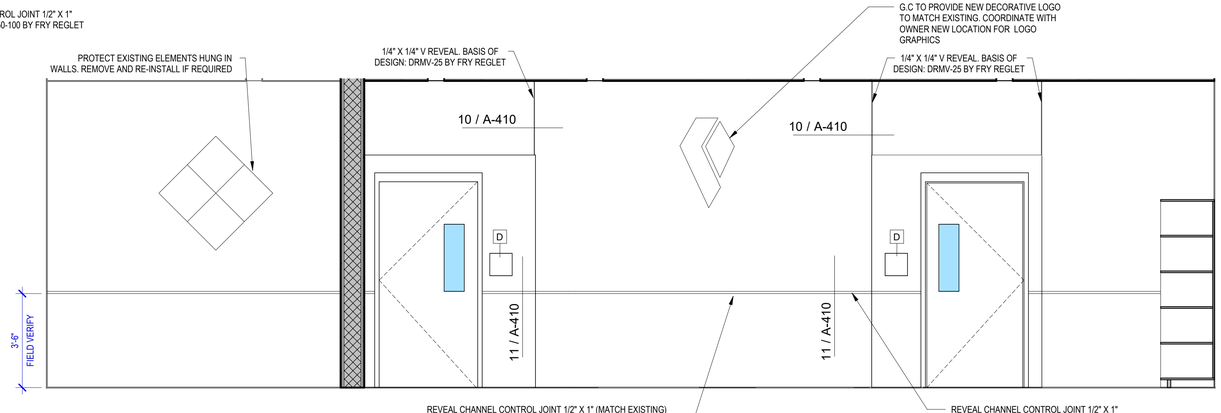
14 ELEC. ROOM ELEV. 2
3/8" = 1'-0"



11 REVEAL CHANNEL SCREED DETAIL
3" = 1'-0"



10 V REVEAL DETAIL
3" = 1'-0"



12 CONFERENCE ROOM ELEV.
3/8" = 1'-0"

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No.	Description	Date

KEY PLAN

INTERIOR ELEVATIONS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

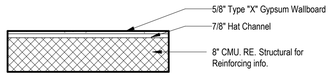
A-410

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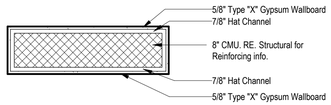
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15/09/2026 06:18:42 p. m.

INTERIOR WALL TYPES

N1 — INTERIOR - 8" CMU w/GYPSUM BOARD (ONE SIDE ONLY)

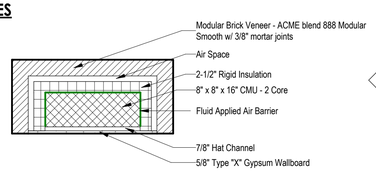


N2 — INTERIOR - 8" CMU w/GYPSUM BOARD (BOTH SIDES)

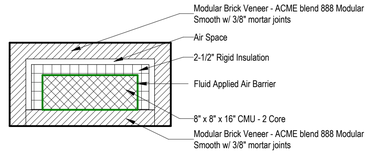


EXTERIOR WALL TYPES

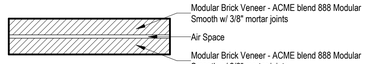
P1 — EXTERIOR - BRICK VENEER ON 8" CMU



P2 — EXTERIOR - BRICK VENEER ON 8" CMU (BOTH SIDES)

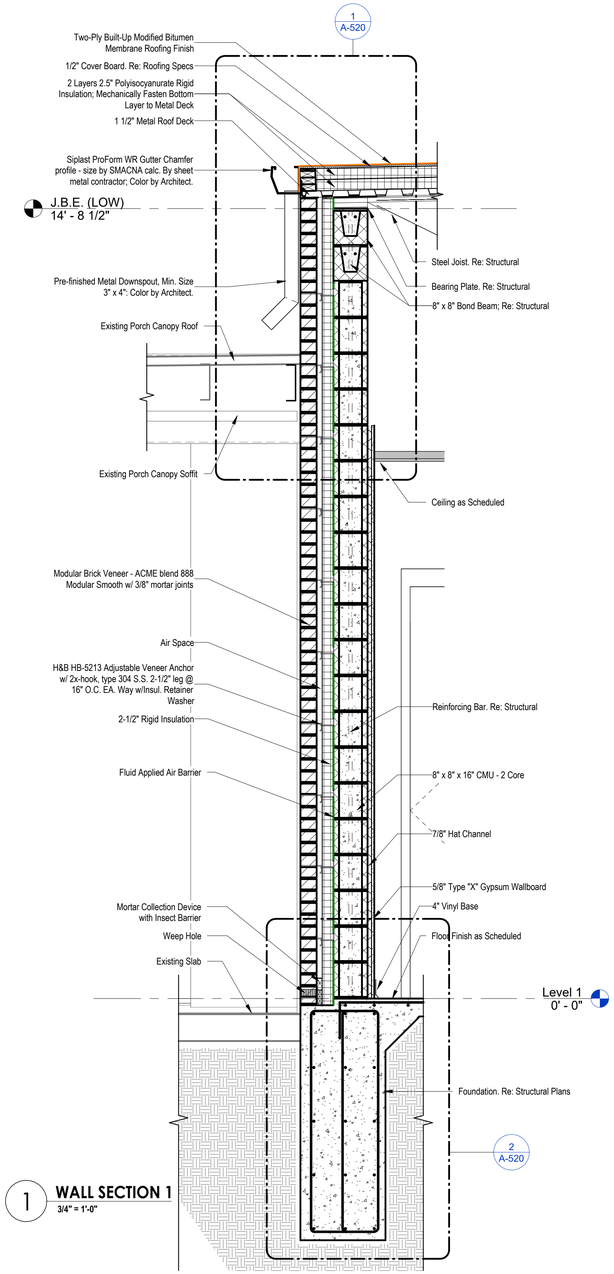


B1 — EXTERIOR - BRICK PRIVACY WALL

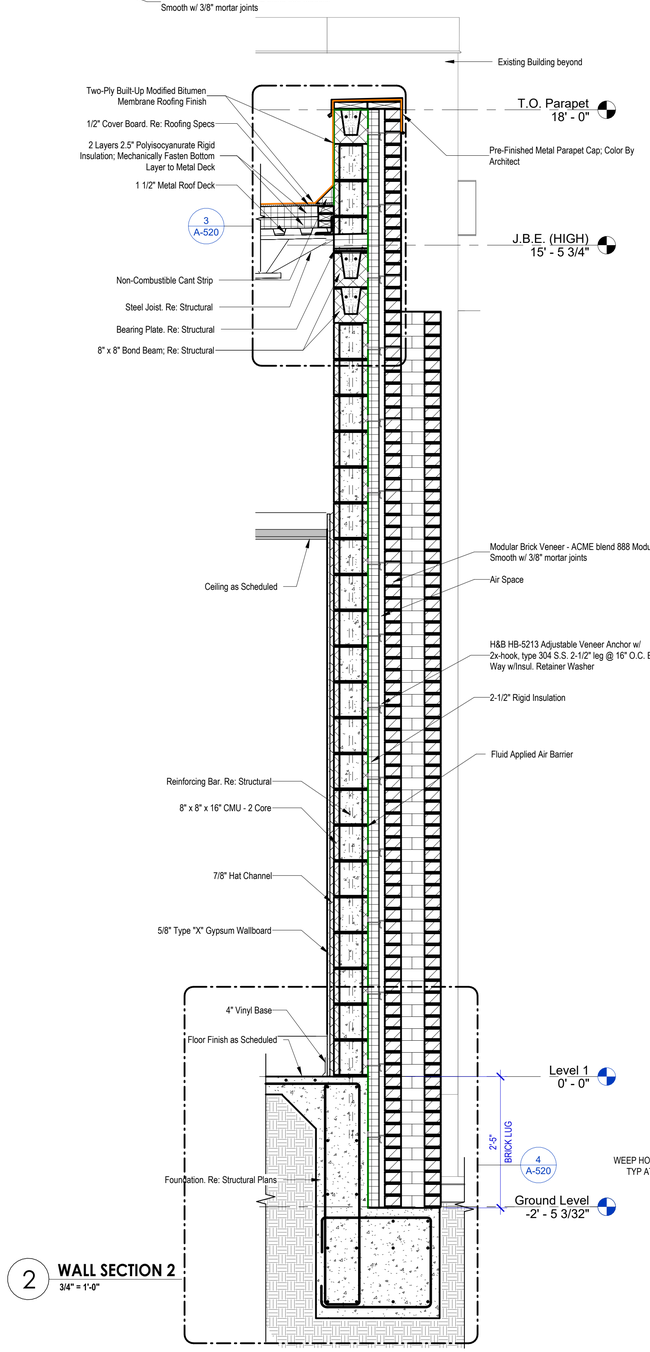


WALL SCHEDULE

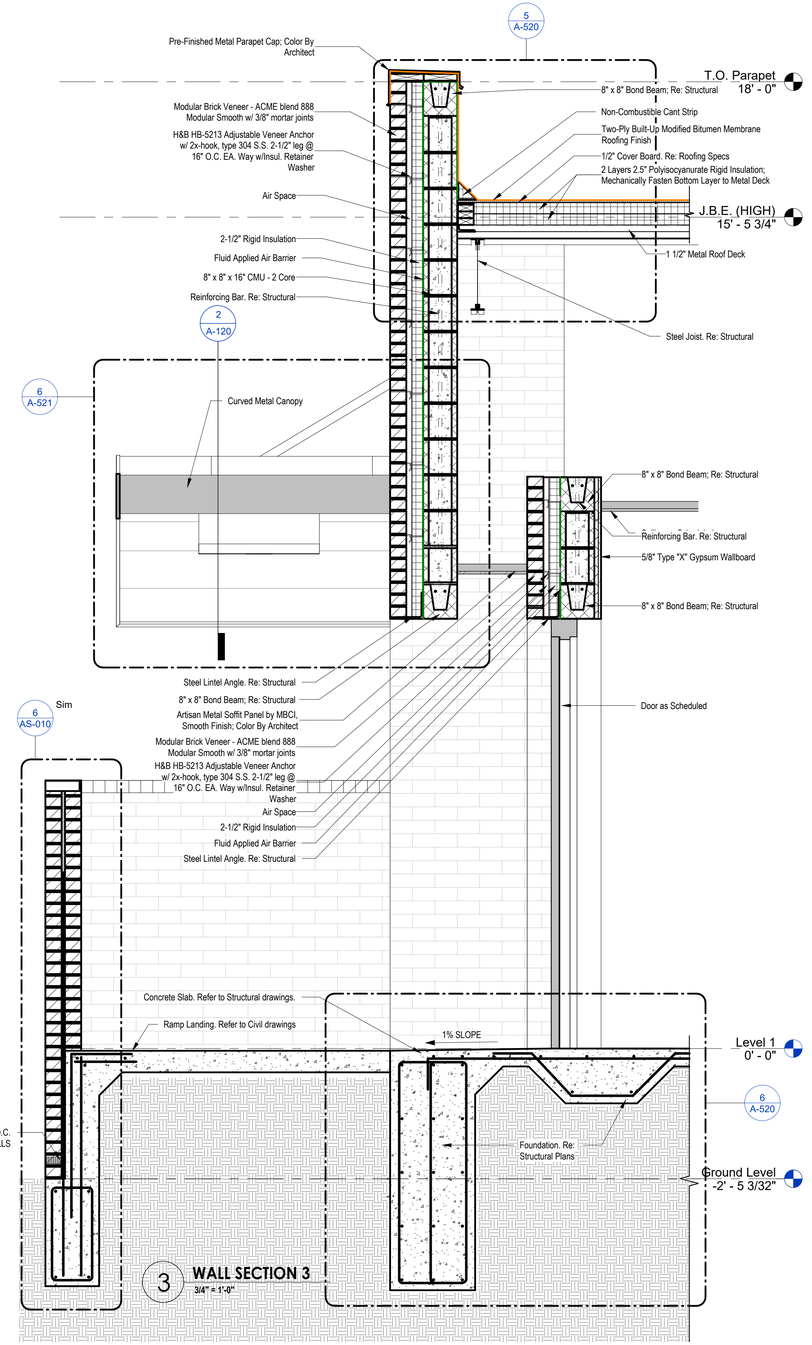
Type Mark	Description	Thickness
B1	EXTERIOR - Double Wythe Brick Privacy Wall	0' - 8"
N1	INTERIOR - 8" CMU w/Gypsum board on one side only	0' - 9 1/8"
N2	INTERIOR - 8" CMU w/ Gypsum Board on both sides	0' - 10 5/8"
P1	EXTERIOR - Brick Veneer on 8" CMU	1' - 4 1/2"
P2	EXTERIOR - Brick Veneer on 8" CMU (Both Sides)	1' - 6 5/8"



1 WALL SECTION 1
3/4" = 1'-0"



2 WALL SECTION 2
3/4" = 1'-0"



3 WALL SECTION 3
3/4" = 1'-0"

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No.	Description	Date

KEY PLAN

WALL LEGEND & WALL SECTIONS

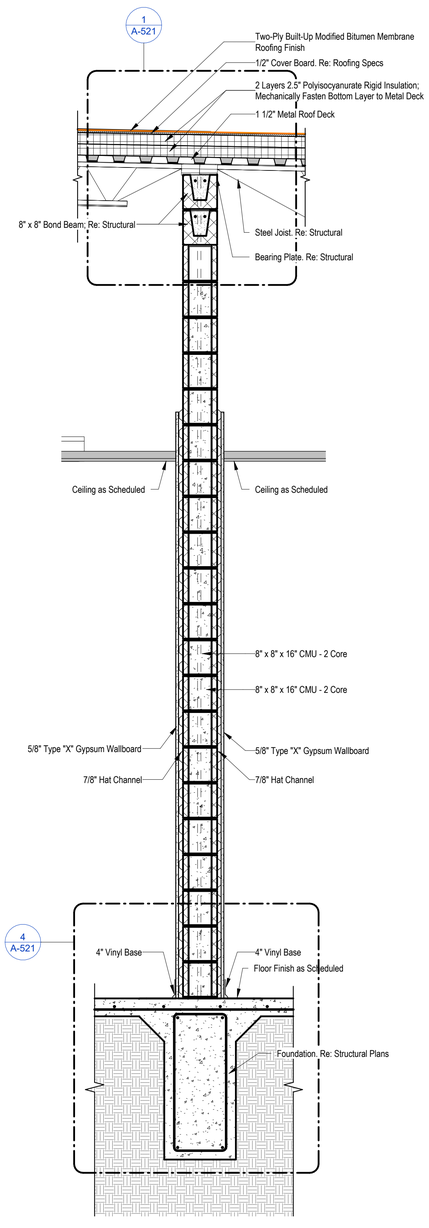
Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

A-430

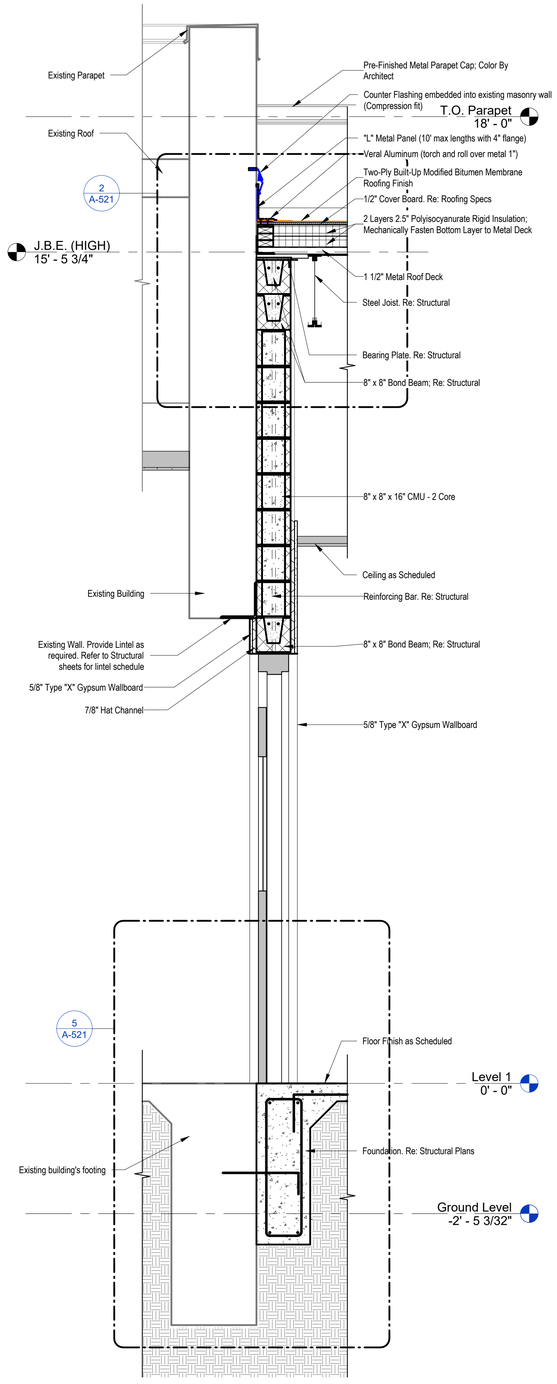
Scale: 3/4" = 1'-0"

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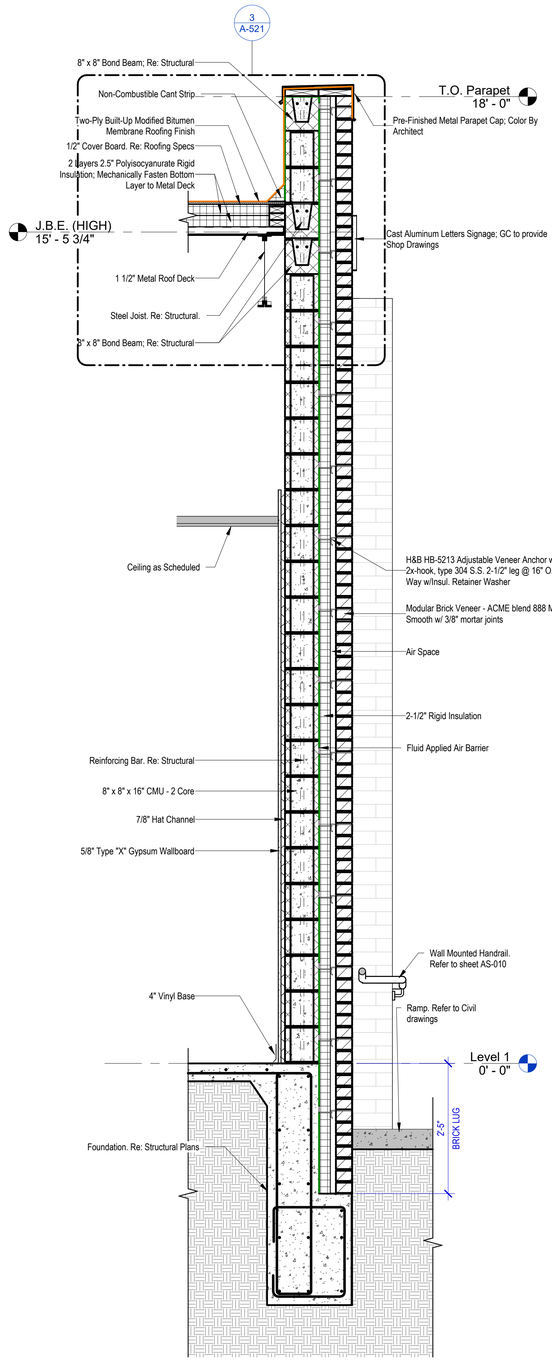
15/09/2026 06:18:43 p. m.



1 **WALL SECTION 4**
3/4" = 1'-0"



2 **WALL SECTION 5**
3/4" = 1'-0"



3 **WALL SECTION 6**
3/4" = 1'-0"

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No.	Description	Date

KEY PLAN

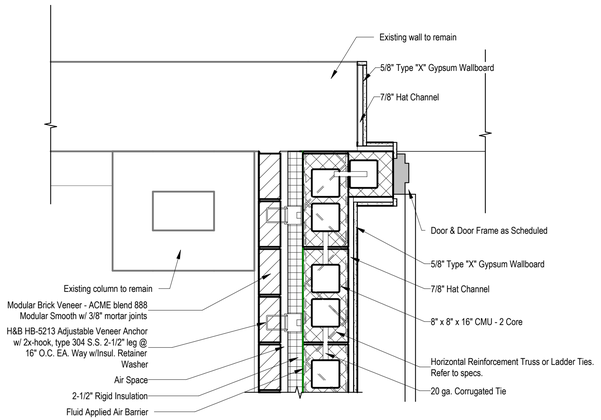
WALL SECTIONS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

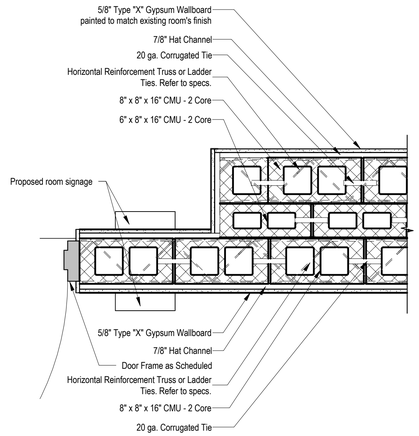
A-431

Scale: 3/4" = 1'-0"

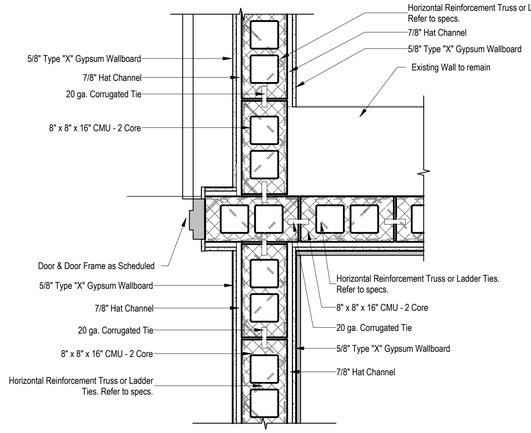
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15/09/2026 06:18:44 p. m.



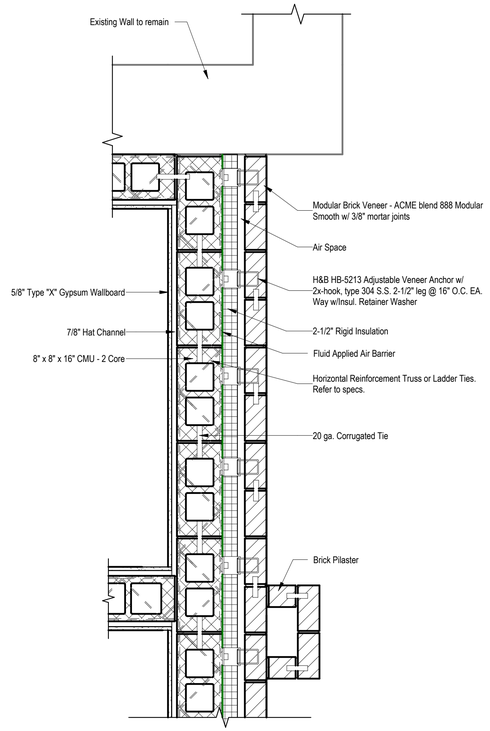
1 **PLAN DETAIL 1**
1" = 1'-0"



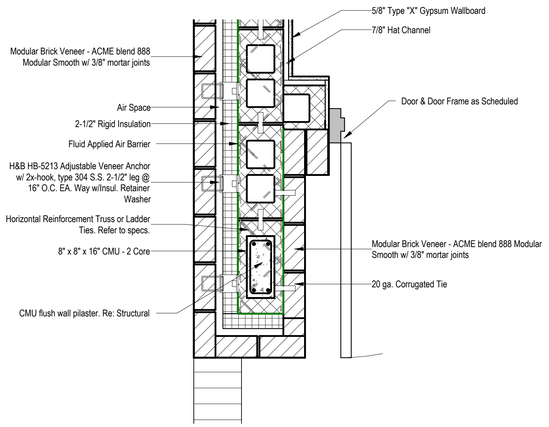
2 **PLAN DETAIL 2**
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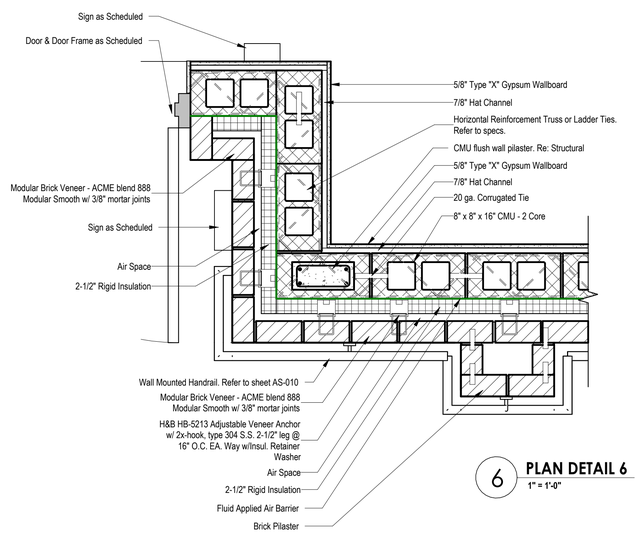
3 **PLAN DETAIL 3**
1" = 1'-0"



4 **PLAN DETAIL 4**
1" = 1'-0"



5 **PLAN DETAIL 5**
1" = 1'-0"



6 **PLAN DETAIL 6**
1" = 1'-0"

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REGISTERED ARCHITECT GUILLERMO J. CAVAZOS, JR. 20150 STATE OF TEXAS

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KEY PLAN

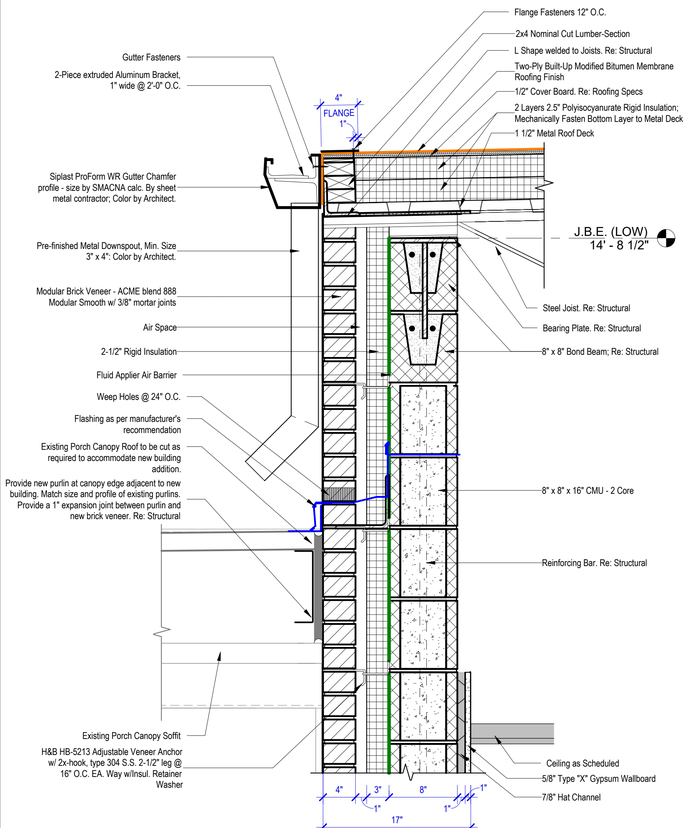
PLAN DETAILS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

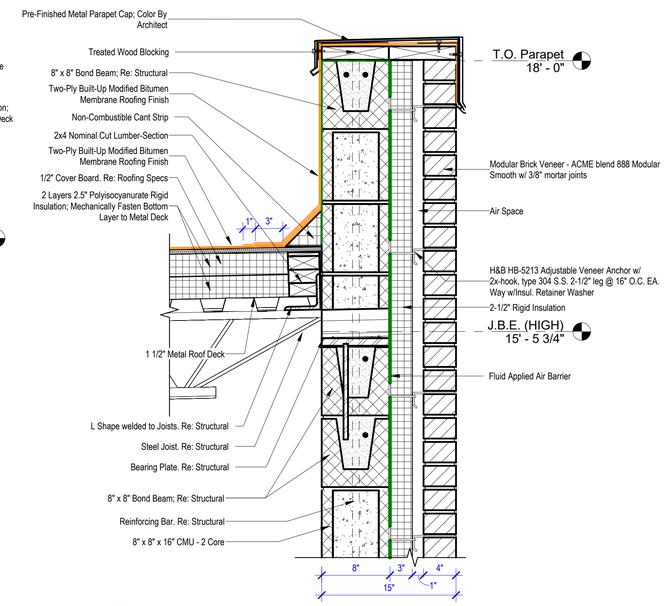
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Scale: 1" = 1'-0"

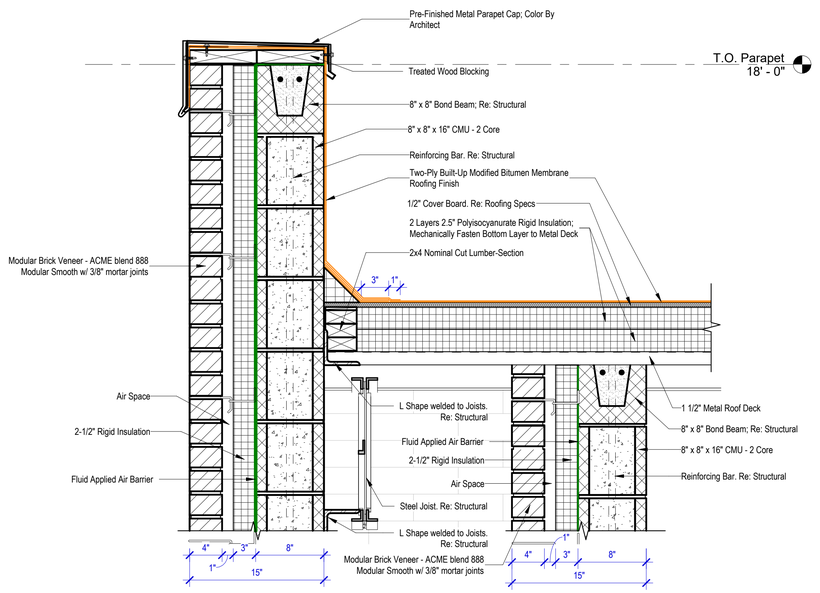
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15/09/2026 06:18:45 p. m.



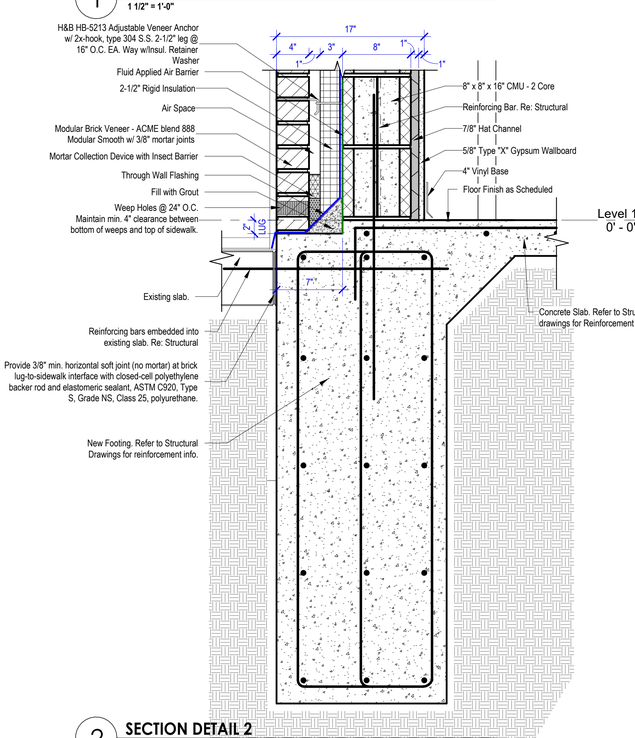
1 **SECTION DETAIL 1**
1 1/2" = 1'-0"



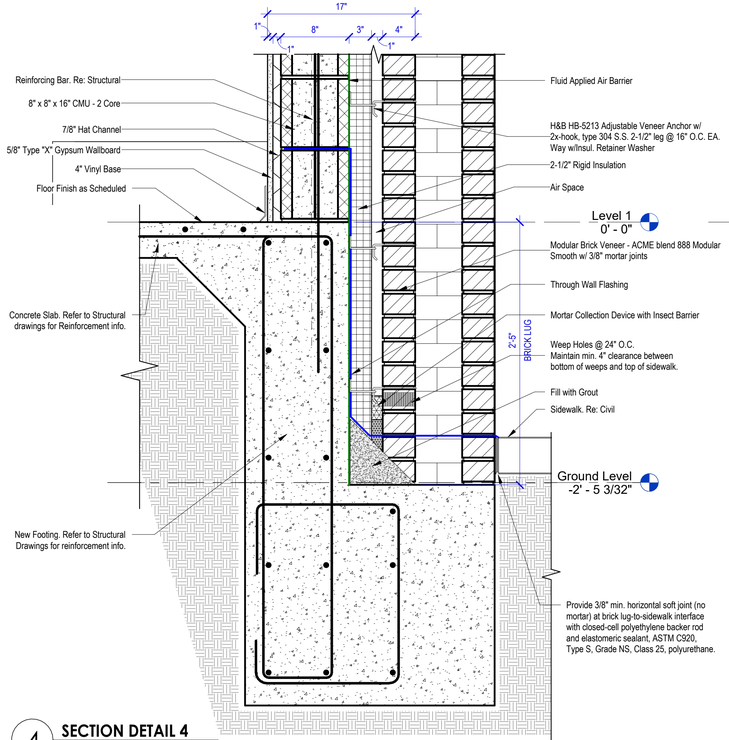
3 **SECTION DETAIL 3**
1 1/2" = 1'-0"



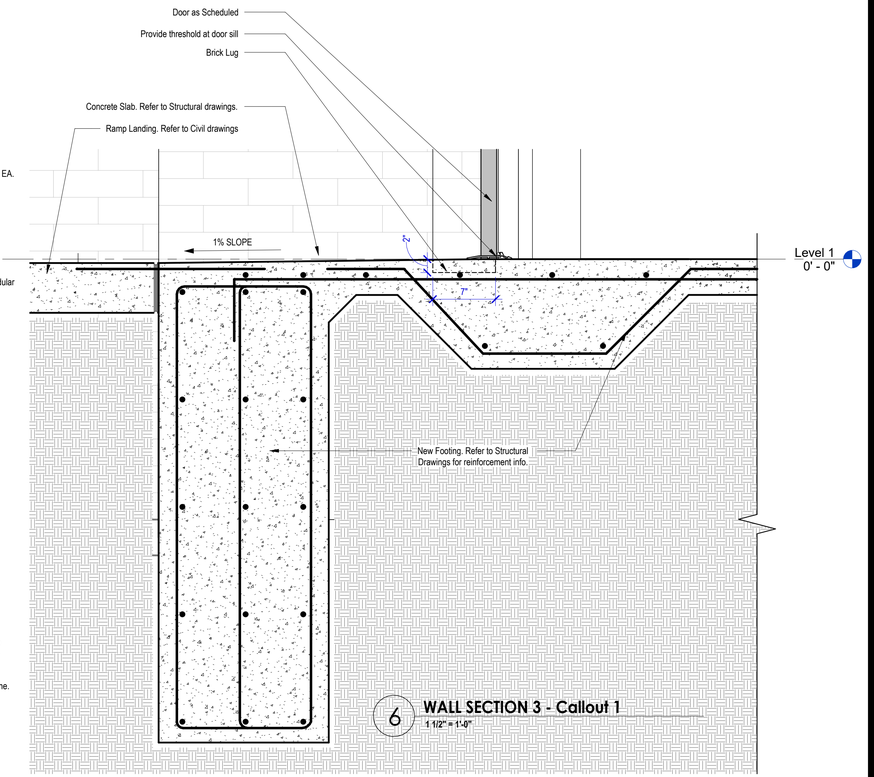
5 **SECTION DETAIL 5**
1 1/2" = 1'-0"



2 **SECTION DETAIL 2**
1 1/2" = 1'-0"



4 **SECTION DETAIL 4**
1 1/2" = 1'-0"



6 **WALL SECTION 3 - Callout 1**
1 1/2" = 1'-0"

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CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT
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20150
STATE OF TEXAS

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No.	Description	Date

KEY PLAN

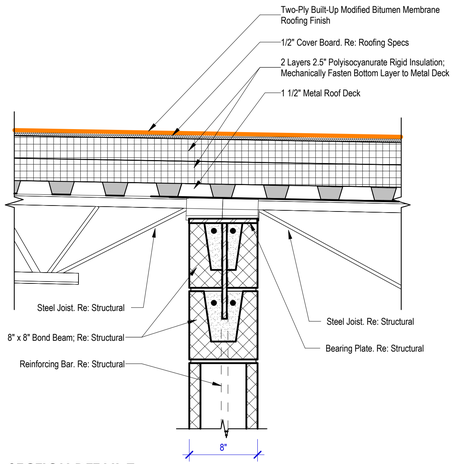
SECTION DETAILS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

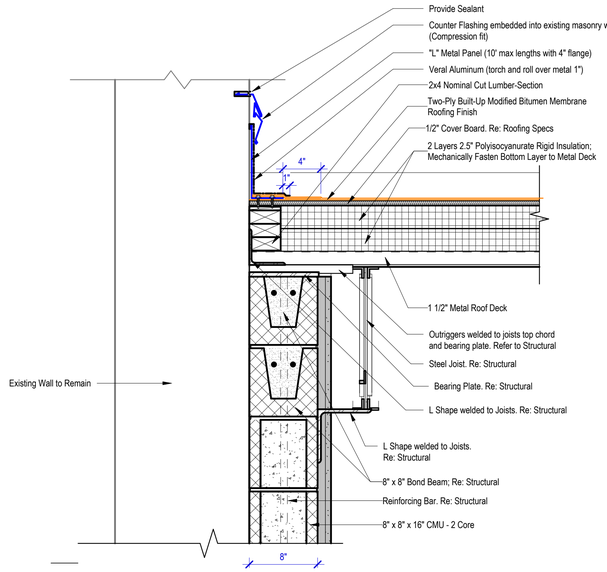
A-520

Scale: 1 1/2" = 1'-0"

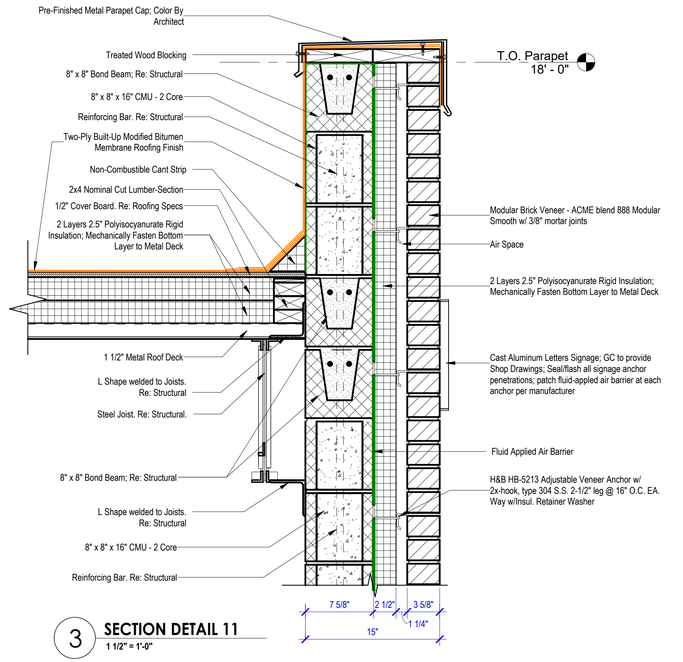
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15/09/2026 06:18:47 p. m.



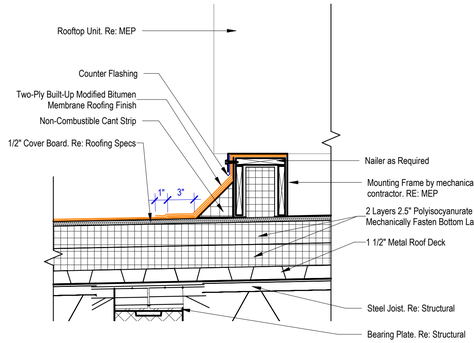
1 **SECTION DETAIL 7**
1 1/2" = 1'-0"



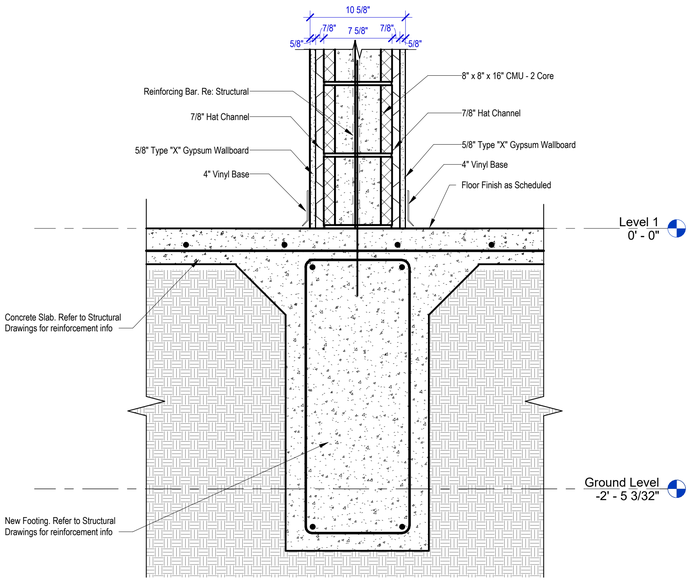
2 **SECTION DETAIL 9**
1 1/2" = 1'-0"



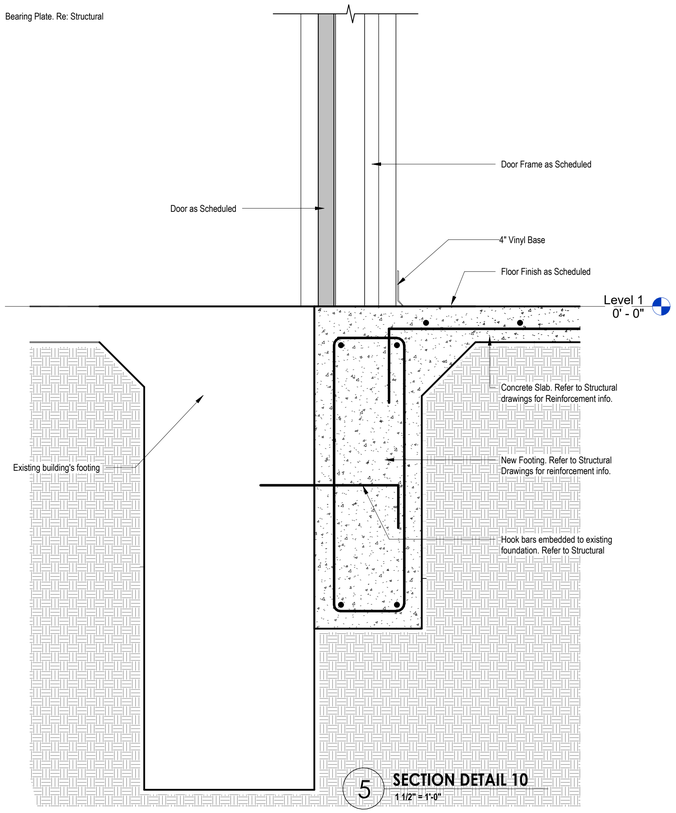
3 **SECTION DETAIL 11**
1 1/2" = 1'-0"



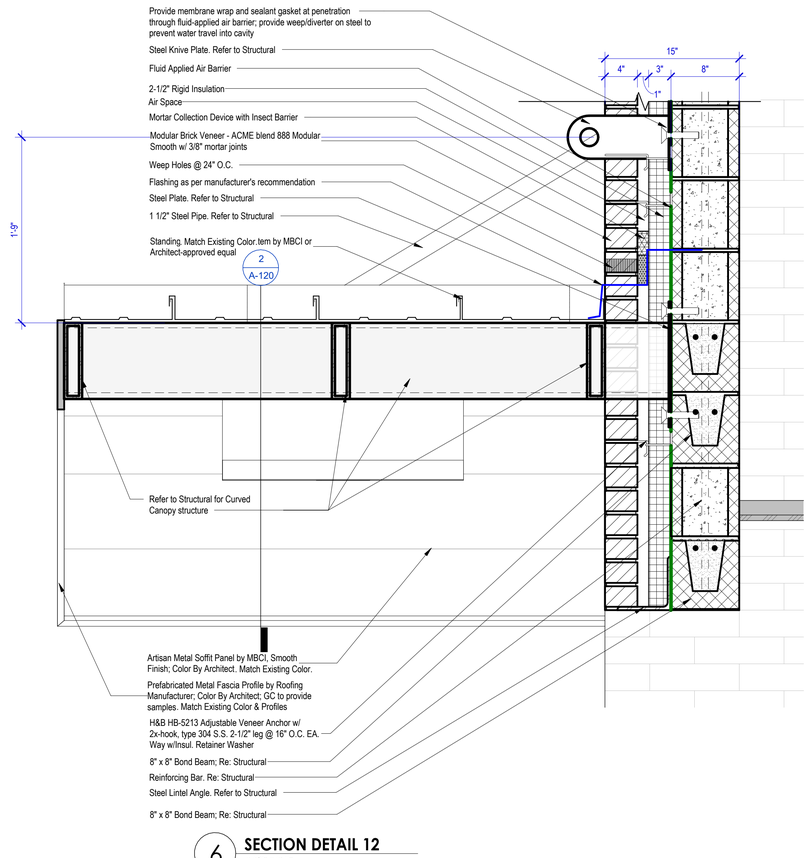
7 **RTU CURB DETAIL**
1 1/2" = 1'-0"



4 **SECTION DETAIL 8**
1 1/2" = 1'-0"



5 **SECTION DETAIL 10**
1 1/2" = 1'-0"



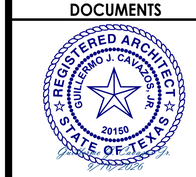
6 **SECTION DETAIL 12**
1 1/2" = 1'-0"

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No.	Description	Date

KEY PLAN

SECTION DETAILS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

A-521

Scale: 1 1/2" = 1'-0"

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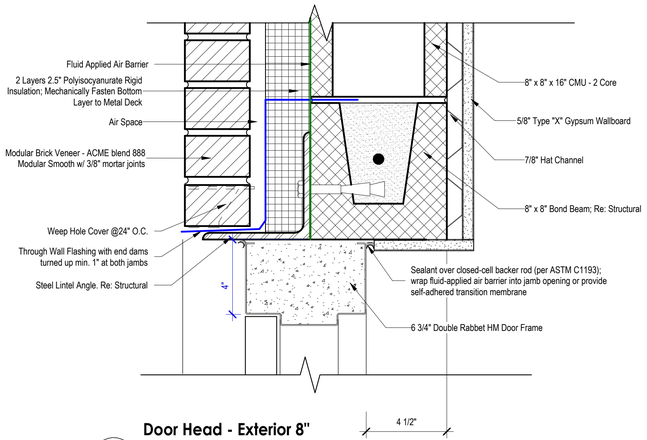
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DOOR SCHEDULE

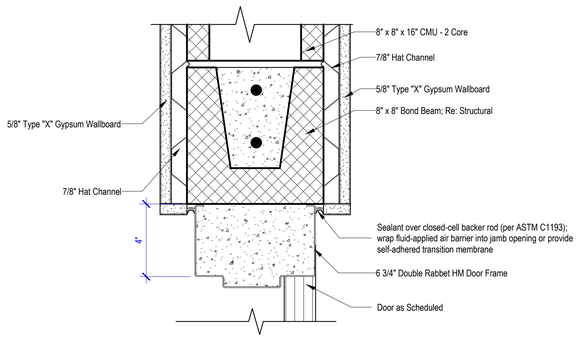
Door No.	Type	Description	DOOR Width	Height	Thickness	Material	Finish	Glazing	FRAME Construction	Gage	Finish	DETAILS Head	Jamb	Sill	Fire Rating	Type Comments
100	K1	Single (Double Swing)	3' - 8"	7' - 8"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	5/A-611	4/A-611			Basis of design: Paylon PE 625HPL; provide 36"H kick plates
101	K1	Single (Double Swing)	3' - 8"	7' - 8"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	5/A-611	4/A-611			Basis of design: Paylon PE 625HPL; provide 36"H kick plates
102	W1	Single	3' - 0"	7' - 8"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	3/A-611	4/A-611			
103	W1	Single	3' - 0"	7' - 8"	1 3/4"	Solid Core Wood	Plastic Laminate; Color By Architect		HM Welded/Seamless	16 Gage	Painted; Color By Architect	3/A-611	4/A-611			
104	M2	Double	6' - 0"	7' - 8"	1 3/4"	Hollow Metal	Galvanized/Painted; Color By Architect		HM Welded/Seamless	14 Gage Galv.	Painted; Color By Architect	1/A-611	2/A-611	7/A-611		

DOOR GENERAL NOTES

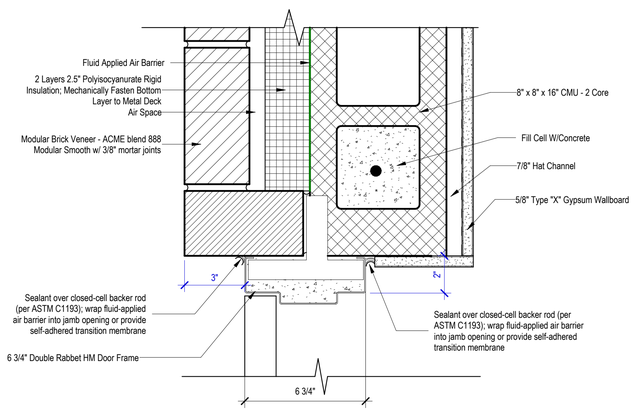
1. DOORS WITH SUFFIX "F" INDICATE FIRE-RATED DOOR. RE: DOOR SCHEDULE FOR FIRE RATINGS (i.e. 45 min, 90 min)
2. RE: DOOR SCHEDULE FOR FURTHER INFORMATION ON EACH DOOR TYPE.
3. GLAZING TYPES PER DOOR INDICATED ON DOOR SCHEDULE. RE: GLAZING SCHEDULE FOR GLAZING TYPES.
4. GENERAL CONTRACTOR TO PROVIDE FULL SET OF SHOP DRAWINGS FOR ALL DOOR TYPES PRIOR TO FABRICATION.
5. RE: DOOR SCHEDULE AND SPECIFICATIONS FOR ALUMINUM DOOR MAKE AND MODEL.
6. RE: DOOR SCHEDULE AND SPECIFICATIONS FOR OVERHEAD DOOR MAKE AND MODEL.



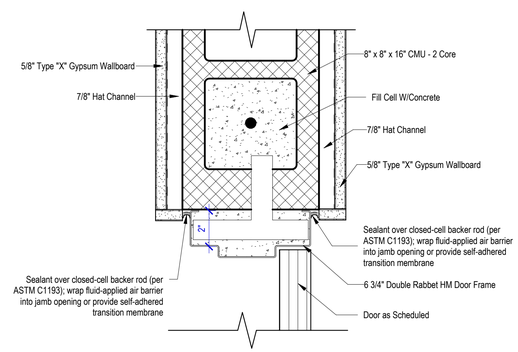
1 **Door Head - Exterior 8" CMU/Brick Cavity Wall**
3" = 1'-0"



3 **Door Head - Interior - 8" CMU**
3" = 1'-0"



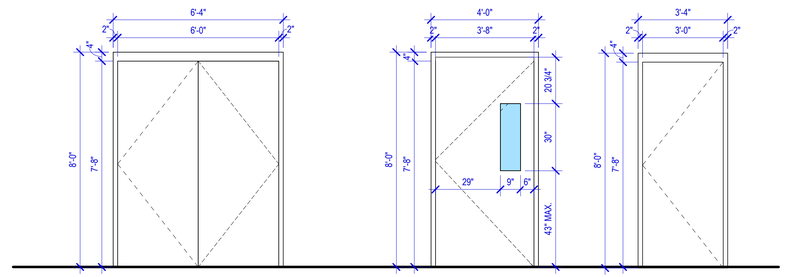
2 **Door Jamb - Exterior CMU/Brick Cavity**
3" = 1'-0"



4 **Door Jamb - Interior - 8" CMU**
3" = 1'-0"

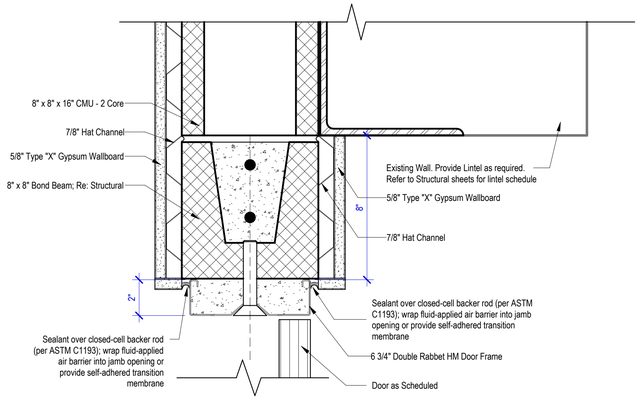
METAL DOOR

WOOD DOORS

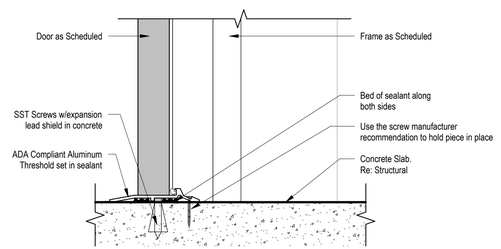


M2 K1 W1

DOOR ELEVATIONS
3/8" = 1'-0"



5 **Door Head - Interior - 8" CMU at Existing Wall**
3" = 1'-0"



7 **Door Threshold Detail - Exterior**
3" = 1'-0"

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No.	Description	Date

KEY PLAN

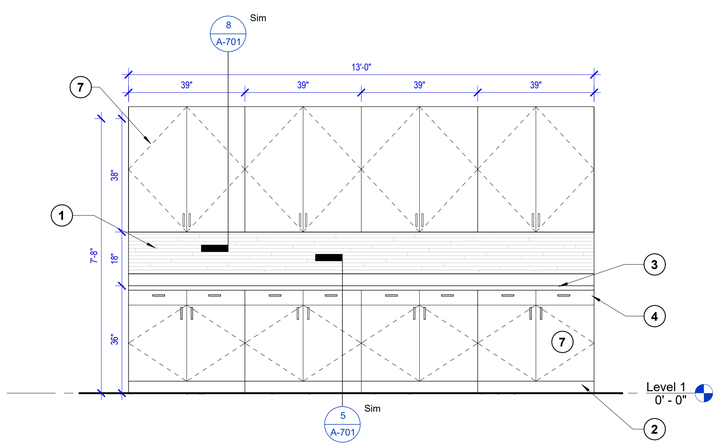
DOOR SCHEDULE & DETAILS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

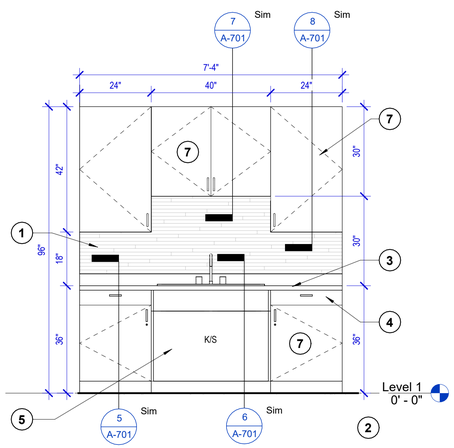
A-611

Scale: As indicated

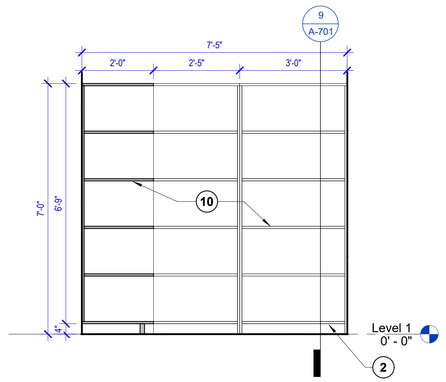
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15/09/2026 06:18:49 p. m.



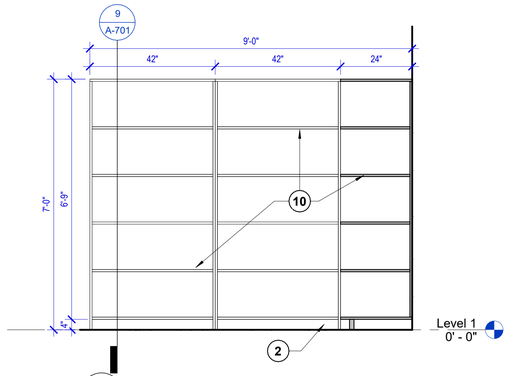
1 **MILLWORK ELEV. 1**
1/2" = 1'-0"



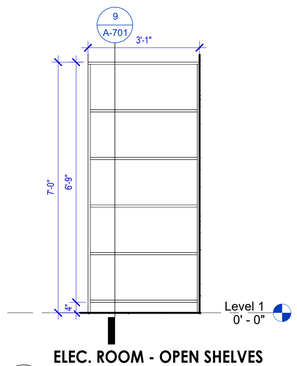
2 **MILLWORK ELEV. 2**
1/2" = 1'-0"



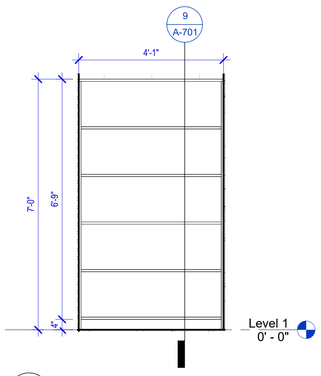
3 **OPEN SHELF UNITS ELEV. 1**
1/2" = 1'-0"



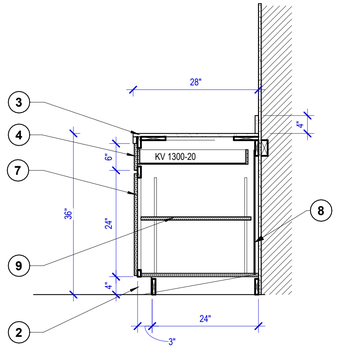
4 **OPEN SHELVES UNITS ELEV. 2**
1/2" = 1'-0"



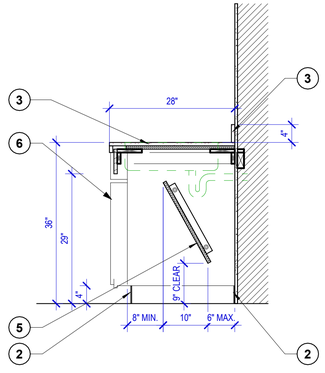
10 **ELEC. ROOM - OPEN SHELVES UNITS ELEV.**
1/2" = 1'-0"



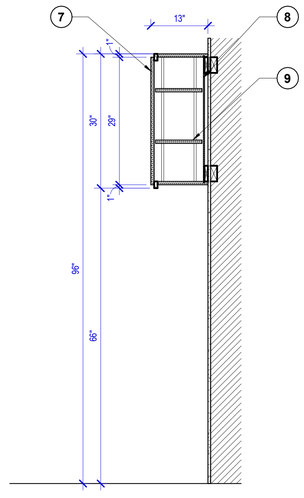
11 **OPEN SHELVES UNITS ELEV. 3**
1/2" = 1'-0"



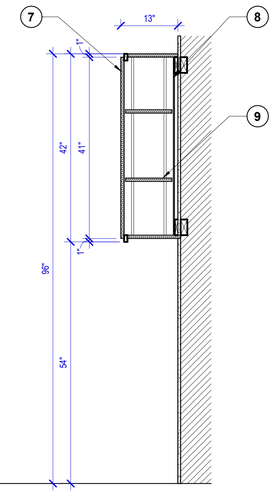
5 **ADULT - 36"H - Base - Doors w/Drawer 30"D**
3/4" = 1'-0"



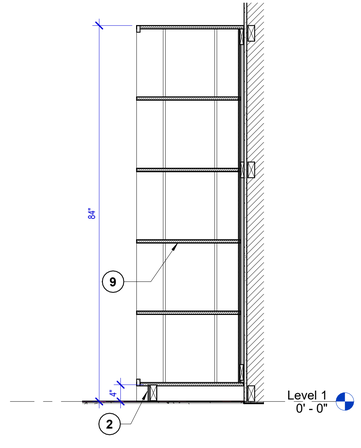
6 **ADULT - 36"H - Base - Sink with ADA K/S, Granite Top**
3/4" = 1'-0"



7 **ADULT - Cabinet Upper - 30"**
3/4" = 1'-0"



8 **ADULT - Cabinet Upper - 42"**
3/4" = 1'-0"



9 **7'H SHELVING UNITS**
3/4" = 1'-0"

MILLWORK NOTES

A. REFER TO SPECS FOR MATERIALS REQUIRED AT ALL CABINET COMPONENTS (I.E., SUB-TOPS, FRONTS, SHELVES,ETC.).
B. ALL SHELVING TO BE GRADE A/C 3/4" PLYWOOD SHELVING, PLASTIC LAMINATE ON ALL EXPOSED EDGES. WITH 1/4" HARDBOARD BACKING VERTICALS TO BE EITHER 1 3/4" WITH EDGING PLYWOOD OR 2 3/4" PLYWOOD SHEETS, BACK TO BACK WITH A 1"x2" TRIM DEPENDING ON THE CONSTRUCTION METHOD PROPOSED. ALL ADJUSTABLE SHELVING STANDARDS SHALL BE RECESSED WITH STANDARDS THAT ARE BACK TO BACK ON ONE PLYWOOD SHEET TO BE ALTERNATELY LAPPED BY 1": SHELF STANDARDS ARE KV 255 & 256
C. ALL FIXED SHELVES SHALL BE A/C 3/4" PLYWOOD WITH HARDWOOD EDGES, PLAM CLAD, WITH ALL HORIZONTAL AND VERTICAL SURFACES MEETING IN CLEAN WELL CRAFTED DADO JOINTS. GLUE AND/OR INVISIBLE TOE NAIL AT ALL SPLICES. RE: SPECS.
D. AT THE TOE SPACE OF ALL BASE CABINET UNITS, AS WELL AS FULL HEIGHT SHELVING UNITS. PROVIDE A FULL 4" TO ALLOW A 4" VINYL (RUBBER) BASE TO BE APPLIED. (A CONTINUOUS 1/2" PLYWOOD STRIP IN ADDITION TO THE 3 1/2" OF THE 2"x4" SHOULD SUFFICE).
E. REFER TO MILLWORK SPECS FOR DETAILED SPECIFICATIONS.
F. G.C. TO PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL.

CABINET HARDWARE (FINISH)
CATCHES: MAGNETIC TYPE STANLEY SP46 US28 FINISH, 1 PER DOOR.
HINGES: 2 PER 3'-0" HGT. OF OPENING STANLEY 1592-1.
PULLS: HEAVY DUTY TYPE STANLEY #4484 US28 FINISH, 1 PER DOOR OR DRAWER.

KEYNOTES - MILLWORK

Number	Description
1	DECORATIVE TILE BACKSPLASH. REFER TO FINISHES SCHEDULE FOR SPEC
2	4" HIGH BASE - MATCH BASE IN ROOM
3	GRANITE COUNTERTOP; $30/SF ALLOWANCE FOR MATERIALS; INSTALLATION COST BY G.C.
4	PLASTIC LAMINATE-CLAD DRAWER FACE
5	PLASTIC LAMINATE-CLAD REMOVABLE ACCESS PANEL
6	CABINET BEYOND
7	3/4" PLASTIC LAMINATE-CLAD DOOR
8	1/4" PLYWOOD BACKING
9	3/4" PLYWOOD SHELVES W/KV 255 & 256 STANDARDS & RECESSED BRACKETS
10	PLASTIC LAMINATE CLAD 3/4" PLYWOOD OPEN SHELVING UNITS WITH KV 255 & 256 STANDARDS & RECESSED BRACKETS & 4 ADJUSTALE SHELVES PER UNIT

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CONSTRUCTION DOCUMENTS

REGISTERED ARCHITECT
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20150
STATE OF TEXAS

NOTES:
DO NOT SCALE DRAWINGS.
CONTACT ARCHITECT IN CASE OF DISCREPANCY.

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No.	Description	Date

KEY PLAN

MILLWORK ELEVS & DETAILS

Drawn by:	VMC
Checked by:	GC
Project number:	25-14
Project Issue Date:	9/16/2026

A-701

Scale: As indicated

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N. SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 17 OF THE 2021 INTERNATIONAL BUILDING CODE (IBC) BY A SPECIAL INSPECTOR HIRED BY THE OWNER TO PERFORM THE SPECIAL INSPECTIONS LISTED BELOW. THE SPECIAL INSPECTOR SHALL BE QUALIFIED BY AN APPROVED AGENCY ACCORDING TO THE CITY'S BUILDING OFFICIAL TO PERFORM THE SPECIAL INSPECTIONS FOR WHICH THEY WILL BE UNDERTAKING. THE CONTRACTOR SHALL COORDINATE WITH AND NOTIFY THE SPECIAL INSPECTOR OF ALL TESTS. THE SPECIAL INSPECTOR SHALL BE RESPONSIBLE TO VERIFY THAT THE ITEMS DETAILED IN THE CONSTRUCTION DOCUMENTS WERE BUILT ACCORDINGLY AND SHALL PREPARE, SIGN, AND FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND THE ARCHITECT FOR ALL TIME SPENT AT THE SITE. THE INSPECTOR SHALL BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE ARCHITECT PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK. THESE SPECIAL INSPECTIONS ARE IN ADDITION TO THE OTHER INSPECTIONS LISTED IN THESE STRUCTURAL NOTES OR PROJECT SPECIFICATIONS.
2. WHERE STRUCTURAL LOAD-BEARING MEMBERS AND ASSEMBLIES ARE SHOP FABRICATED, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS, UNLESS THE FABRICATOR IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

TABLE 1705.2.3
REQUIRED SPECIAL INSPECTIONS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

TYPE	INSPECTION FREQUENCY		REFERENCE STANDARD
	CONTINUOUS	PERIODIC	
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
A. END CONNECTIONS- WELDING OR BOLTED	--	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
B. BRIDGING- HORIZONTAL OR DIAGONAL	--	--	
1. STANDAR BRIDGING	--	X	SJI SPECIFICATIONS LISTED IN SECTION 2207.1
2. BRIDGING THAT DIFFERS FROM SJI SPECIFICATIONS LISTED IN SECTION 2207.1	--	X	

TABLE 1705.3
REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	--	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	---
2. REINFORCING BAR WELDING: a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A 706; b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND c. INSPECT ALL OTHER WELDS.	-- / -- / X	X / X /	AWS D1.4 ACI 318: 26.6.4	---
3. INSPECT ANCHORS CAST IN CONCRETE	--	X	ACI 318: 17.8.2	---
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	X	X (b)	ACI 318: 17.8.2.4 / ACI 318: 17.8.2	---
5. VERIFY USE OF REQUIRED DESIGN MIX.	--	X	ACI 318: Ch 19, 26.4.3, 26.4.4	1904.1, 1904.2
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	--	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	---
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	--	ACI 318: 26.5	---
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	--	X	ACI 318: 26.5.3-26.5.5	---
9. INSPECT PRESTRESSED CONCRETE FOR: a. APPLICATION OF PRESTRESSING FORCES; AND b. GROUTING OF BONDED PRESTRESSING TENDONS.	X / X	-- / --	ACI 318: 26.10	---
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	--	X	ACI 318: 26.9	---
11. FOR PRECAST CONCRETE DIAPHRAGM CONNECTION OR REINFORCEMENT AT JOINTS CLASSIFIED AS MODERATE OR HIGH DEFORMABILITY ELEMENTS (MDE OR HDE) IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F, INSPECT SUCH CONNECTION OR REINFORCEMENT IN THE FIELD FOR: A. INSTALLATION OF THE EMBEDDED PARTS B. COMPLETION OF THE CONTINUITY OF REINFORCEMENT ACROSS JOINTS. C. COMPLETION OF CONNECTIONS IN THE FIELD.	X / X / X	-- / -- / --	ACI 318: 26.13.1.3 ACI 550.5	---
12. INSPECT INSTALLATION TOLERANCES OF PRECAST CONCRETE DIAPHRAGM CONNECTION FOR COMPLIANCE WITH ACI 500.5	--	X	ACI 318: 26.13.1.3	---
13. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	--	X	ACI 318: 26.11.2	---
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X	ACI 318: 26.11.1.2(b)	---

TABLE 1705.6
REQUIRED SPECIAL INSPECTION AND TESTS OF SOILS

TYPE	INSPECTION FREQUENCY	
	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	--	X
4. DURING FILL PLACEMENT, VERIFY USE OF PROPER MATERIAL AND PROCEDURES IN ACCORDANCE WITH THE PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND FILL THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X

TABLE 1705.7
REQUIRED SPECIAL INSPECTION AND TESTS OF DRIVEN DEEP FOUNDATION ELEMENTS

TYPE	INSPECTION FREQUENCY	
	CONTINUOUS	PERIODIC
1. VERIFY ELEMENT MATERIALS, SIZES AND LENGTH COMPLY WITH REQUIREMENTS.	X	--
2. DETERMINE CAPACITIES OF TESTS ELEMENTS AND CONDUCT ADDITIONAL LOAD TEST, AS REQUIRED.	X	--
3. INSPECT DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	--
4. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.	X	--
5. FOR STEEL ELEMENTS, PERFORM ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.2.	IN ACCORDANCE WITH SECTION 1705.2	
6. FOR CONCRETE ELEMENTS AND CONCRETE-FILLED ELEMENTS, PERFORM TEST AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	
7. FOR SPECIALTY ELEMENTS, PERFORM ADDITIONAL INSPECTIONS AS DETERMINED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.	IN ACCORDANCE WITH STATEMENT OF SPECIAL INSPECTIONS	

TABLE 1705.8
REQUIRED SPECIAL INSPECTION AND TESTS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS

TYPE	INSPECTION FREQUENCY	
	CONTINUOUS	PERIODIC
1. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	--
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	--
3. FOR CONCRETE ELEMENTS, PERFORM TESTS AND ADDITIONAL SPECIAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	IN ACCORDANCE WITH SECTION 1705.3	

M. STEEL STUDS/JOIST

1. MATERIALS:
2. A. STUDS AND TRACKS: AS PER SCHEDULE BELOW TO BE ASTM A446 GRADE D, Fy = 50 KSI. SPECIFICATIONS: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY LATEST REVISIONS OF:
   A. AISC SPECIFICATION OF THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS.
   B. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
   PROPERTIES:
   C. LIGHTGAGE FRAMING MEMBER SIZES INDICATED ON DRAWINGS SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS:

DESIGNATION	MEMBER DEPTH	FLANGE WIDTH	GAGE	Ix (IN4)	USE	SPACING OF STUDS	MAXIMUM HEIGHT
362S137-43	3-5/8"	1-3/8"	18	0.617	INTERIOR	16" O.C.	18'-3"
600S137-43	6"	1-3/8"	18	2.043	INTERIOR	16" O.C.	27'-2"
600S162-43	6"	1-5/8"	18	2.317	EXTERIOR	16" O.C.	16'-4"
600S200-54	6"	2"	16	3.321	EXTERIOR	16" O.C.	18'-5"

   ALL JOISTS TO BE MANUFACTURED BY DIETRICH INDUSTRIES OR EQUIVALENT EQUAL
3. CONNECTIONS:
   A. ALL CONNECTIONS TO BE FIELD SCREWS.
4. FINISH:
   A. ALL MATERIALS TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.
   B. TOUCH UP FIELD WELDS WITH ZINC RICH PAINT.
5. MISCELLANEOUS:
   A. SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
   B. ALL STUDS USED FOR EXTERIOR WALL FRAMING SHALL BE 6" STEEL STUDS, MINIMUM 16 GAGE AT 16" O.C. MAXIMUM, U.N.O. ON PLAN.
   C. ALL STUD MEMBERS AND THEIR CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR A HORIZONTAL WIND LOAD OF AS NOTED IN SECTION B. PROVIDE CALCULATIONS STAMPED BY A REGISTERED STRUCTRAL ENGINEER IN THE STATE OF TEXAS.
   D. DEFLECTION LIMIT = L/240 (EXCEPT L/360 AT PLASTER APPLICATION).
   E. OPENINGS 10'-0" OR LESS IN WIDTH SHALL BE FRAMED WITH LIGHTGAGE FRAMING MEMBERS. HEADS OR OPENINGS SHALL CONSIST OF STUD OR JOIST SECTIONS SUFFICIENT TO CARRY THE WEIGHT OF THE WALL ABOVE. JAMB SECTIONS SHALL CONSIST OF HEAVIER GAGE STUDS, MULTIPLE STUDS, OR BOTH, AS REQUIRED TO CARRY THE WIND LOAD OF THE ADJACENT OPENING.
   F. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
   G. WELD SIZE TO BE 3/32" WITH AWS TYPE 6013 OR 7014 ROD.
   H. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD AT EACH SIDE OF TRACKS OR POWER DRIVEN FASTENERS.
   I. PROVIDE CONTINUOUS HORIZONTAL BRIDGING AT 4'-0" O.C. MAXIMUM FOR WALLS.
   J. PROVIDE DOUBLE STUDS UNDER BEAM AND LINTEL BEARING, UNLESS SHOWN OTHERWISE.
   K. BRIDGING FOR ROOF JOISTS SHALL BE AT 8'-0" OR MAXIMUM BETWEEN SUPPORTS.

G. MASONRY

1. MATERIALS:
   A. CONCRETE BLOCK: LIGHTWEIGHT ASTM C90 (HOLLOW) ASTM C145 (SOLID) f'm=1,900 PSI
   B. MORTAR: ASTM C270 TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1,800 PSI (PROPERTY SPECIFICATIONS) MORTAR TITE AS MANUFACTURED BY ADDIMENT.
   C. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE f'c=2,000 PSI
   D. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (LADUR TYPE) (DUR-O-WALL).
   E. BAR REINFORCING: ASTM A615, GRADE 60 (UNLESS NOTED OTHERWISE).
2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
   A. PROVIDE DOWELS FROM WALL, SAME SIZE AND SPACING AS WALL BARS. LAP 48 DIAMETERS MINIMUM WITH WALL BAR.
   B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2" X 3" IN SIZE, FREE OF MORTAR DROPPINGS.
   C. PROVIDE REBAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 96 BAR DIAMETERS (MINIMUM OF 2 PER BAR).
   D. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 DIAMETER LAP.
   E. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.
   F. MAXIMUM HEIGHT OF GROUT LIFT = 4'-0". UNLESS HIGH LIFT GROUTING PROCEDURES ARE EMPLOYED IN ACCORDANCE WITH ASI 530-99
3. MISCELLANEOUS:
   A. FILL CORE SOLID AROUND ANCHOR BOLTS.
   B. PROVIDE 100% SOLID BLOCKS OR SOLIDLY FILLED HOLLOW BLOCKS AT ALL EXPANSION BOLT LOCATIONS.
   C. SET WELD PLATES IN BOND BEAMS AFTER THE GROUT IS PLACED, BUT WHILE IT IS STILL PLASTIC.
   D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
   E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
   F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
   G. VERTICAL CONTROL JOINTS SHALL BE PROVIDED FULL JHEIGHT OF MASONRY WALLS AS LOCATED ON THE DRAWINGS. THE JOINT SHALL BE PROVIDED AS A CONTINUOUS HEAD JOINT WITH MORTAR RAKED BACK 3/4" AT BOTH FACES AND
1. 50% OF THE HORIZONTAL JOINT REINFORCING CUT AT THE JOINT. BOND BEAM REINFORCING AND GROUT SHALL CONTINUE THROUGH THE JOINT. AFTER THE MORTAR IS SET, THE JOINT SHALL BE CAULKED WITH A FLEXIBLE MASTIC.
   H. FILL ALL VOIDS AND CELLS WITHIN 12" EITHER SIDE OF CENTERLINE OF BEAM AND/OR COLUMN BEARING LOCATIONS WITH A #4 REINFORCING BAR AND GROUT U.N.O.

H. LINTELS:

1. PROVIDE LINTELS OVER ALL OPENINGS IN WALLS. REFER TO ARCHITECTURAL AND HVAC DRAWINGS FOR LOCATION, NUMBER AND SIZES OF OPENINGS NOT SHOWN ON STRUCTRAL SHEETS.

I. STRUCTURAL STEEL

MATERIALS:
2. A. STRUCTURAL STEEL:
   - W SECTIONS ASTM- A992
   - HSS SECTIONS ASTM- A500 GRADE B
   - ALL OTHER SECTIONS ASTM- A36
   - HIGH STRENGTH BOLTS: ASTM A325 OR A490
   - ANCHOR BOLTS: ASTM A307 OR A36:
   - ELECTRODES: SERIES E70
3. STRUCTURAL PIPES: ASTM A53 OR A501, FY = 42 KSI
   EXPANSION BOLTS: HILTI "KWIK BOLTS" OR APPROVED EQUAL.

SPECIFICATIONS: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY
A. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS LATEST EDITION.
B. AISC CODE OF STANDARD PRACTICE LATEST EDITION.
C. STRUCTURAL WELDING CODE, AWS D1.1-88 OF THE AMERICAN WELDING SOCIETY.
D. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS

CONNECTIONS:
4. A. CONNECTIONS TO BE DESIGNED BY THE FABRICATOR TO DEVELOP FULL STRENGTH OF MEMBER. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS. FIELD CONNECTIONS TO BE BOLTED. SHOP CONNECTIONS TO BE WELDED OR BOLTED.
5. B. FULL PENETRATION AND PARTIAL PENETRATION FIELD WELDS IN MATERIAL OVER 5/16 INCH THICK SHALL BE SUBJECT TO NON-DESTRUCTIVE TESTING (OTHER THAN
6. VISUAL INSPECTION) BY AN INDEPENDENT LABORATORY.
   C. ALL BOLTS IN BRACED FRAMES AND BOLTS IN SHEAR CONNECTIONS USED IN CONJUNCTION WITH FULL PENETRATION FLANGE WELDS SHALL BE SLIP CRITICAL (FRICTION) TYPE.

PAINT:
A. DO NOT PAINT ANY STEEL WHICH WILL BE CONCEALED FROM VIEW. PAINT ALL VISIBLE STEEL GRAY.

GALVANIZING: ALL SHELF ANGLES, LINTELS IN EXTERIOR WALLS, AND ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS SHALL BE GALVANIZED.

MISCELLANEOUS:
A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
B. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.
C. GROUT UNDER BEARING PLATES, BASE PLATES, AND SETTING PLATES TO BE
I. NON-SHRINKING TYPE.
D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3 INCHES OF CONCRETE.
E. PROVIDE 1/4 INCH THICK SETTING PLATES FOR ALL BEAMS BEARING ON MASONRY WHICH DO NOT REQUIRE A BEARING PLATE.
F. PROVIDE SHOP WELDED ANCHORS FOR ATTACHMENTS OF MASONRY. SPACING TO BE 16 INCHES ON COLUMNS AND BEAMS.
G. PROVIDE HEAVY WASHER AT ALL ANCHOR BOLTS.
H. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
   PROVIDE BOLT HOLES FOR JOISTS BOLTED TO BEAMS AND ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS.
J. MINIMUM BEAM BEARING ON MASONRY = 8 INCHES UNLESS NOTED OTHERWISE.
L. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS:
   - 1/2 INCH DIAMETER BOLTS --- 3 1/2 INCHES EMBEDMENT
   - 3/4 INCH DIAMETER BOLTS --- 5 INCHES EMBEDMENT

J. WELDING:

1. REFERENCES:
   A. AWS D1.1-LATEST EDITION - "STRUCTURAL WELDING CODE - STEEL"
   B. AWS D1.3-LATEST EDITION - "STRUCTURAL WELDING CODE - SHEET STEEL"
   ALL WELDING BY AWS QUALIFIED OPERATORS.

K. OPEN WEB STEEL JOISTS

1. SPECIFICATIONS:
   A. FABRICATION AND ERECTION PER SJI REQUIREMENTS.
   B. MANUFACTURER TO BE A MEMBER OF SJI.
2. BRIDGING:
   A. NUMBER OF ROWS AS SHOWN ON THE CONTRACT DRAWINGS, BUT NOT LESS THAN REQUIRED BY SJI. UNLESS NOTED OTHERWISE, USE HORIZONTAL BRIDGING FOR K-SERIES (EXCEPT USE A DIAGONAL ROW NEAREST THE MIDSPAN WHERE FOUR OR FIVE ROWS ARE SHOWN OR REQUIRED BY SJI.).
   B. HORIZONTAL BRIDGING MAY BE WELDED TO THE JOISTS.
   C. DIAGONAL BRIDGING TO BE BOLTED TO THE JOISTS AND AT THEIR POINT OF INTERSECTION. ENDS OF DIAGONAL BRIDGING TO BE ANCHORED WITH HORIZONTAL BRIDGING UNLESS SHOWN OTHERWISE. HORIZONTAL BRIDGING IN NO MORE THAN TWO CONSECUTIVE BAYS MAY BE USED TO PROVIDE PASSAGE FOR DUCT WORK.
   D. ANCHOR BRIDGING TO INTERSECTING STRUCTURAL STEEL OR MASONRY WALLS.
3. BEARING:
   A. WELD ALL JOISTS TO SUPPORTING STEEL WITH 2 INCHES OF 1/8 INCH FILLET WELD FOR K-SERIES JOISTS EACH SIDE OF BEARING. JOISTS TO BE FIELD BOLTED AT COLUMN LINES, OR IF THERE IS NO JOIST AT A COLUMN LINE, FIELD BOLT THE JOIST NEAREST THE COLUMN ON EACH SIDE. EXTEND BOTTOM CHORDS OF THE SAME JOISTS AND WELD THEM TO THE BEAM OR COLUMN.
   B. EXTEND ALL JOISTS 1 INCH MINIMUM PAST CENTERLINE OF SUPPORTING MEMBER WHERE POSSIBLE. BEARINGS TO BE PER DRAWINGS, OR, WHERE SPECIAL INSTRUCTION IS NOT GIVEN, ACCORDING TO THE STANDARD SPECIFICATIONS OF SJI.
4. SHOP DRAWINGS
   A. FURNISH (1) SEPIA AND TWO (2) PRINTS EACH OF SHOP AND ERECTION DRAWINGS FOR REINFORCING STEEL, STRUCTURAL STEEL, STEEL JOISTS, AND MISC. STEEL , TO STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.
5. MISCELLANEOUS:
   A. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF HVAC DUCTS.
   B. SEE DRAWINGS FOR SPECIAL BEARING SHOES, EXTENDED ENDS, RTU LOADS, ETC..

L. STEEL ROOF DECK

1. REFERENCE: STEEL DECK INSTITUTE: "DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS: LATEST EDITION."
2. DECK SHALL AS NOTED ON PLANS WITH G60 GALVANIZED FINISH.
3. DECK ENDS MAY BE EITHER BUTTED OR LAPPED OVER SUPPORTS. ON JOIST FRAMING, APPROPRIATE END LAP SHALL OCCUR OVER A TOP CHORD ANGLE FOR PROPER ANCHORAGES.
4. UNLESS NOTED OTHERWISE, ATTACH METAL DECK TO STRUCTURAL STEEL WITH #12 TEK SCREWS AT 6" O.C. AT PERIMETER AND 12" O.C. AT INTERMEDIATE SUPPORTS. FASTEN SIDE LAPS WITH #12 TEK SCREWS AT 6" O.C.

E. GENERAL NOTES FOR SITE PREPARATION

1. REFER TO CIVIL AND ARCHITECTURAL PLANS FOR FINISH FLOOR ELEVATION.
2. BUILDING AREAS TO SUPPORT SELECT FILL SHOULD BE STRIPPED OF ALL EXISTING VEGETATION AND TOPSOIL EXTENDING AT LEAST 5 FT BEYOND BUILDING PERIMETER.
3. EXCAVATE AND REMOVE ANY ON SITE SOILS THAT ARE WITHIN 5 FEET BELOW EXISTING GRADE TO CREATE A LEVEL PLATFORM. THE OVER-EXCAVATION SHOULD BE PERFORMED AT A 1:1 SLOPE AND IN STAGES ADJACENT TO THE EXISTING BUILDING TO MINIMIZE THE EXISTING EXTERIOR GRADE BEAM EXPOSURE.
4. SCARIFY THE SUBGRADE AT LEAST (6) SIX INCHES AND MOISTURE CONDITION BETWEEN MINUS TWO (-2) TO PLUS TWO (+2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698 (STD. PROCTOR)
5. STRUCTURAL FILL SHALL CONSISTS OF LOW PLASTICITY SANDY LEAN CLAY, CLAYEY SAND, OR GRANULAR BASE MATERIAL WITH A PLASTICITY INDEX (PI) BETWEEN SEVEN (7) AND EIGHTEEN (18). THE FILL SHOULD BE PLACED IN COMPACTED LIFTS NOT TO EXCEED SIX (6) INCHES IN THICKNESS, MOISTURE CONDITIONED BETWEEN MINUS TWO (-2) TO PLUS TWO (+2) PERCENTAGE POINTS OF THE OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY DETERMINED IN ACCORDANCE WITH ASTM D698 (STD. PROCTOR).
6. THE BUILDINGS SHOULD HAVE A MINIMUM OF 5 FEET OF PROPERLY COMPACTED SELECT FILL UNDER THE SLAB.
7. REFER ALSO TO THE SUBSURFACE INVESTIGATION REPORT PREPARED BY HOWLAND ENGINEERING AND SURVEYING CO. PROJECT NO. 39695 DATED JANUARY 13, 2016.
8. THE SOILS ENGINEER SHALL BE THE OWNERS REPRESENTATIVE TO CONTROL THE PLACEMENT OF COMPACTED FILL. THE SOILS ENGINEER SHALL APPROVE THE SUBGRADE PREPARATION, THE FILL MATERIALS, THE METHOD OF PLACEMENT AND COMPACTION, AND SHALL GIVE WRITTEN APPROVAL OF THE COMPLETED FILL.
9. PROVIDE DENSITY TESTING ON THE SUBGRADE SOILS AND THE SELECT FILL AT EVERY LIFT AND FOR EACH 2,500 SF OF SLAB AREA, OR A MINIMUM OF 3 DENSITY TEST PER TESTING INTERVAL, WHICHEVER IS GREATER. ANY AREAS NOT MEETING THE REQUIRED COMPACTION SHOULD BE RECOMPACTED AND RETESTED UNTIL COMPLIANCE IS MET.
10. OBSERVATION OF REINFORCEMENT PLACEMENT WILL NEED TO BE PROVIDED BY SYNERGY STRUCTURAL ENGINEERING, INC. BEFORE CONCRETE POUR. THE FOLLOWING ITEMS WILL NEED TO BE PROVIDED BY CONTRACTOR AND/OR OWNER BEFORE REBAR OBSERVATION:
    A. COMPACTION REPORTS OF SUBGRADE AND SUBSEQUENT LIFTS PERFORMED BY AN APPROVED TESTING LABORATORY.
    B. COMPACTION AND INSPECTION REPORTS BY AN APPROVED TESTING LABORATORY FOR THE BACKFILLING OF THE TRENCHES OF PLUMBING OR ELECTRICAL LINES.
    **FAILING TO PROVIDE COMPACTION REPORTS WILL VOID ANY WARRANTIES AND/OR LIABILITIES DESCRIBED IN THESE PLANS AND/OR PROPOSAL-AGREEMENT BETWEEN OWNER/CONTRACTOR AND SYNERGY STRUCTURAL ENGINEERING, INC.

F. REINFORCED CONCRETE

1. MATERIALS:
   A. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-LATEST EDITION "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
   B. STRUCTURAL CONCRETE: ASTM C-150 TYPE I/II

CONCRETE TYPE	DESIGN STRENGTH	MAXIMUM SLUMP	MAXIMUM AGGREGATE	MAXIMUM W/C RATIO AIR ENTR.	MAXIMUM W/C RATIO NO AIR ENTR.
FOUNDATION	3000 PSI	5"	1-1/2"	0.5	0.6

   * ALL MIXES SHALL HAVE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD REGARDLESS OF STRENGTH OBTAINED.
   C. ALL DEFORMED REINFORCING BARS (ASTM A 615): FY = 60,000
   D. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A165-85. (SHEET FORM, NOT ROLLED)
2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
3. CONTINGENCIES:
   A. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING. SUCH SUPPORTS ARE TO BE REFLECTED IN THE BID.
4. FOOTINGS:
   A. DOWELS IN FOOTINGS TO MATCH VERTICAL WALL REINFORCING.
   B. PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.
5. SPLICES: UNLESS NOTED OTHERWISE, LAP SPLICES AND EMBEDMENTS SHALL BE AS SHOWN ON TABLE BELOW.
6. CONSTRUCTION JOINTS:
   A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS ARE TO BE KEYED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP X 1/3 MEMBER THICKNESS.
7. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
   A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 IN.
   B. CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER 1 1/2 IN.
      OTHERS 2 IN.
   C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER: SLABS, WALLS, AND #11 BARS & SMALLER 3/4 IN.
      OTHERS 1 1/2 IN.

REINFORCEMENT TENSION LAPS AND EMBEDMENT
(fy=60,000 PSI f'c=3,000 PSI)

BAR SIZE	BAR DIA. (IN)	EMBEDMENT AND CLASS A LAP (IN) TOP BAR CASE 1	TOP BAR CASE 2	OTHER BARS CASE 1	OTHER BARS CASE 2	CLASS B LAP (IN) TOP BAR CASE 1	TOP BAR CASE 2	OTHER BARS CASE 1	OTHER BARS CASE 2
#3	3/8	22	32	14	25	28	42	22	32
#4	1/2	29	43	22	33	37	56	29	43
#5	5/8	36	54	28	41	47	74	36	54
#6	3/4	43	64	33	50	56	84	43	64
#7	7/8	63	94	48	72	81	122	63	94
#8	1	72	107	55	82	93	134	72	107
#9	1-1/8	81	121	62	93	105	157	81	121
#10	1-1/4	91	136	70	105	118	177	91	136
#11	1-3/8	101	151	78	116	131	196	101	151

NOTES:
1. TABLE REPRESENTS LENGTHS OF TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICES LENGTHS BASED ON AC1 318-08 SECTION 12.2.2.
2. CLASS A LAP LENGTHS APPLY WHEN BARS LAPS ARE STAGGERED TO LAP HALF THE BARS AT THE SAME LOCATION OR WHEN BARS ARE LAPPED AT A LOCATION WHERE THE REINFORCEMENT AREA PROVIDED IS AT LEAST TWICE THAT REQUIRED.
3. CLASS B LAP LENGTHS APPLY WHEN ALL BARS ARE SPLICED AT A LOCATION OF MAXIMUM STRESS IN THE BARS.
4. CASE 1 LENGTHS APPLY TO BEAMS AND COLUMNS WITH CONCRETE COVER EQUAL OR GREATER THAN THE BAR DIAMETER, CLEAR BAR SPACING EQUAL OR GREATER THAN THE BAR DIAMETER AND WITH STIRRUPS OR TIES NOT LESS THAN THE CODE MINIMUM THROUGHOUT THE LENGTH IN THE TABLE, AND FOR OTHER ELEMENTS WITH CONCRETE COVER EQUAL OR GREATER THAN THE BAR DIAMETER AND CLEAR SPACING EQUAL OR GREATER THAN TWO TIMES THE BAR DIAMETER.
5. CASE 2 LENGTHS APPLY TO BEAMS AND COLUMNS WITH CONCRETE COVER LESS THAN THE BAR DIAMETER, AND CLEAR BAR SPACING LESS THAN THE BAR DIAMETER, AND FOR OTHER ELEMENTS WITH CONCRETE COVER LESS THAN THE BAR DIAMETER AND CLEAR BAR SPACING LESS THAN TWO TIMES THE BAR DIAMETER.
6. TOP BARS ARE HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST BELOW THE REINFORCEMENT.
7. MULTIPLY LENGTHS SHOWN BY 0.87 FOR 4000 PSI CONCRETE.
8. MULTIPLY LENGTHS SHOWN BY 1.3 FOR LIGHTWEIGHT AGGREGATE CONCRETE.
9. MULTIPLY LENGTHS SHOWN BY 1.3 FOR EPOXY-COATED BARS.

A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
5. THE DETAILS ON SHEET S002, S003 & S004 ARE "TYPICAL" DETAILS WHICH ARE TO BE USED BY THE CONTRACTOR WHERE THESE VARIOUS GENERAL CONDITIONS EXIST. THESE DETAILS ARE NOT NECESSARILY REFERENCED ANYWHERE ELSE IN THIS SET OF CONSTRUCTION DOCUMENTS. PRIOR TO STARTING WORK, THE CONTRACTOR IS TO CONFIRM WITH THE STRUCTURAL ENGINEER THAT THESE DETAILS ARE PROPERLY INTERPRETED AND APPLIED TO THE APPROPRIATE CONDITIONS.

B. SITE OBSERVATION BY STRUCTURAL ENGINEER

1. GENERAL
   A. THE CONTRACTOR STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, AND PROCEDURES, TECHNIQUES, AND SEQUENCE.
   B. THE ENGINEER SHALL NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSON PERFORMING ANY OF THE WORKS, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
   C. PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES ARE SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY OR QUANTITY OF THE WORK, BUT RATHER PERIODIC IN AN EFFORT TO GUARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

C. SUBMITTALS

1. SHOP DRAWINGS
   A. THE GENERAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWING FOR THE FOLLOWING ITEMS:
      1. CONCRETE MIX DESIGNS
      2. REINFORCING STEEL
      3. STRUCTURAL STEEL
      4. MISCELLANEOUS STEEL
      5. STEEL DECK
      6. BAR JOISTS
      7. GUARD RAILS AND HAND RAILS (*)
      8. STEEL STAIRS (*)
      9. TILT WALL (LIFTING/BRACING/ERECTION) (*,#)
      10. LIGHT-GAGE STEEL (*,#)
      11. CONCRETE MASONRY PRODUCT DATA
      12. CURTAIN WALL (*,#)
      13. ALUMINUM CANOPIES (*,#)
      14. FORM WORK (*,#)
      15. GRATING
      16. FIRE SPRINKLER SYSTEM (#)

      ITEMS MARKED (*) SHALL HAVE SHOP DRAWING SEALED BY A REGISTERED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. ITEMS MARKED (#) SHALL BE SUBMITTED TO ENGINEER FOR OWNER'S RECORD ONLY AND WILL NOT HAVE ENGINEER'S SHOP DRAWING STAMP.
   B. ALL SHOP DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
   C. THE OMISSION FROM THE SHOP DRAWING OF ANY MATERIAL REQUIERES BY THE CONTRACTOR DOCUMENTS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
2. MANUFACTURER'S LITERATURE
   A. SUBMIT MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.
3. REPRODUCTION
   A. THE USE OF REPRODUCTIONS OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OF MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN AS CORRECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERROR THAT MAY OCCUR HEREON.

D. ENGINEERING DESIGN CRITERIA

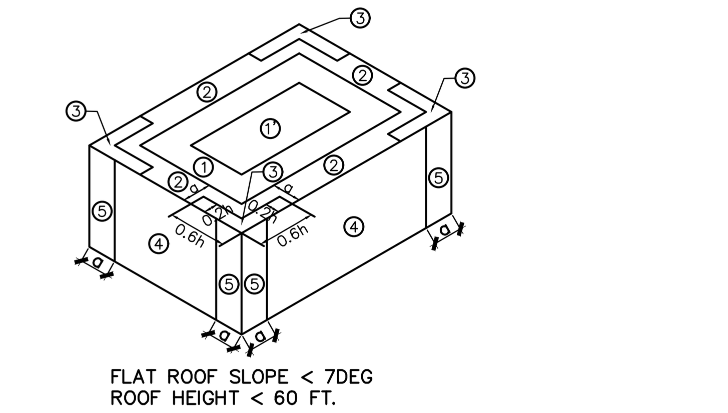
BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021.
SECTION 1603: CONSTRUCTION DOCUMENTS
1603.1.1 FLOOR LIVE LOAD:
- A. PUBLIC AREAS, LOBBIES 100 PSF
- B. OFFICES 50 PSF
- C. RESTROOMS 50 PSF
- D. CORRIDORS 100 PSF
- E. CLASSROOMS 40 PSF
- F. MECHANICAL ROOMS 125 PSF

1603.1.2 ROOF LIVE LOAD:
- A. MINIMUM ROOF LIVE LOAD = 20 PSF (REDUCIBLE)

1603.1.3 ROOF SNOW LOAD:
- A. FLAT ROOF SNOW LOAD, Pf= 0 PSF
- B. SNOW EXPOSURE FACTOR, Ce= 0.9
- C. SNOW LOAD IMPORTANCE FACTOR, I= 1.0
- D. THERMAL FACTOR, Ct= 1.0

1603.1.4 WIND DESIGN DATA:
- A. ULTIMATE WIND SPEED (3-SECOND GUST), Vult = 115 MPH
  NOMINAL DESIGN WIND SPEED (3-SECOND GUST), Vasd = 89 MPH
- B. RISK CATEGORY= III
- C. WIND EXPOSURE= B
- D. INTERNAL PRESSURE COEFFICIENT, GCpi = +/- 0.18
- E. COMPONENTS AND CLADDING NET DESIGN WIND PRESSURE (PSF):

EFFECTIVE WIND AREA (FT^2)	ZONE 1 POS.	1 NEG.	1' POS.	1' NEG.	2 POS.	2 NEG.	3 POS.	3 NEG.	4 POS.	4 NEG.	5 POS.	5 NEG.
10	+9.7	-37.9	+9.7	-21.8	+9.7	-50.0	+9.7	-68.1	+23.8	-25.8	+23.8	-31.9
20	+9.1	-35.4	+9.1	-21.8	+9.1	-46.8	+9.1	-61.7	+22.7	-24.7	+22.7	-29.7
50	+8.3	-32.1	+8.3	-21.8	+8.3	-42.5	+8.3	-53.2	+21.3	-23.3	+21.3	-26.9
100	+7.7	-29.6	+7.7	-21.8	+7.7	-39.3	+7.7	-46.8	+20.2	-22.2	+20.2	-24.7



FLAT ROOF SLOPE < 7DEG
ROOF HEIGHT < 60 FT.

1603.1.5 EARTHQUAKE DESIGN DATA:
- A. RISK CATEGORY = III
- B. SEISMIC IMPORTANCE FACTOR, Ie = 1.25
- C. MAPPED SPECTRAL RESPONSE ACCELERATION, Ss=0.047g AND S1=0.012g
- D. SITE CLASS= D
- E. SPECTRAL RESPONSE COEFFICIENTS, Sds=0.0501g AND Sd1=0.0208g
- F. SEISMIC DESIGN CATEGORY= A
- G. BASIC SEISMIC-FORCE-RESISTING SYSTEM(S)= ORDINARY REINFORCED MASONRY SHEAR WALLS
- H. DESIGN BASE SHEAR=
- I. SEISMIC RESPONSE COEFFICIENT(S), Cs=0.0313g
- J. RESPONSE MODIFICATION FACTOR(S), R= 2.0
- K. ANALYSIS PROCEDURE USED= EQUIVALENT LATERAL FORCE PROCEDURE

1603.1.6 GEOTECHNICAL INFORMATION:
- A. ALLOWABLE SOIL BEARING CAPACITY= 2,000 PSF TOTAL LOAD ON SELECT FILL

1603.1.7 FLOOD DESIGN DATA:
- A. NOT APPLICABLE.

1603.1.8 SPECIAL LOADS:
- A. NOT APPLICABLE.

1603.1.9 SYSTEMS AND COMPONENTS REQUIRING SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:
- A. NOT APPLICABLE.

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memo@cavazosarch.com

LC Falcon Conference Center Catering Staging Addition
Laredo College
1 West End Washington St.
Laredo, TX 78040

CONSTRUCTION DOCUMENTS

STATE OF TEXAS
VICTOR M. DeANDA JR.
92641
LICENSED PROFESSIONAL ENGINEER
09/16/26

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY VICTOR M. DE ANDA JR., P.E. 92641 EXPIRES ON 09/30/2028.

SYNERGY
STRUCTURAL ENGINEERING, INC.
1119 Flores Ave. SUITE 300
Laredo, TX. 78040
(956) 753-5860 synergy@synergy-se.com
TBPE Reg. No.: F-7661

NOTES:

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CONTACT ARCHITECT IN CASE OF DISCREPANCY.

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No.	Description	Date
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2		
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GENERAL NOTES

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

S001

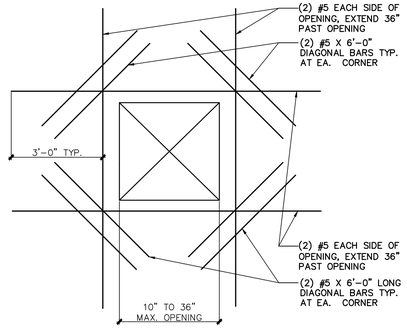
Scale

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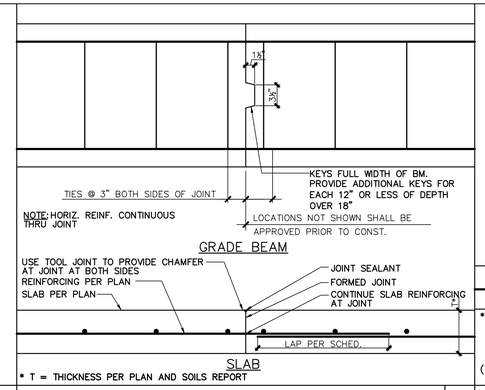
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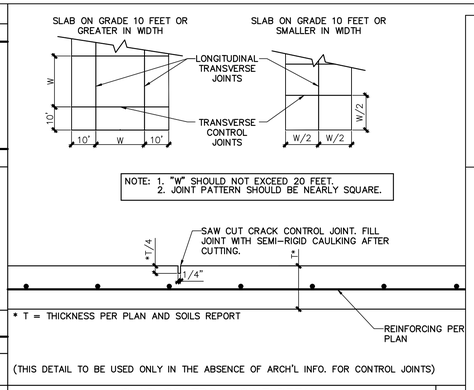
TYPICAL OPENING IN CONCRETE SLAB 9



GRADE BEAM AND SLAB CONSTRUCTION JOINT 5



SLAB CONTROL JOINT DETAIL 1

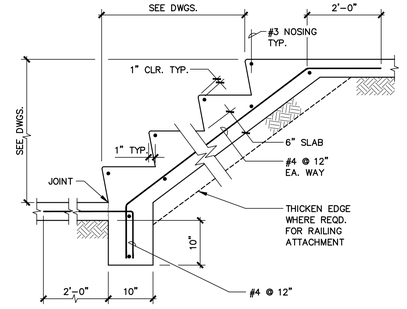


(THIS DETAIL TO BE USED ONLY IN THE ABSENCE OF ARCH'L INFO. FOR CONTROL JOINTS)

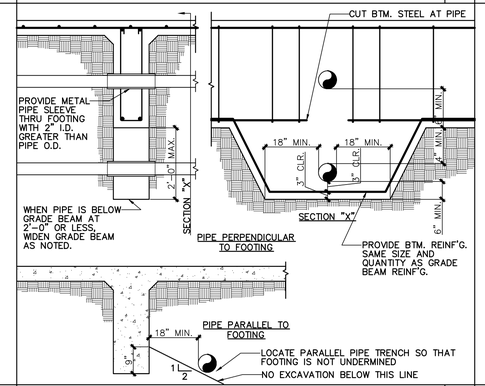
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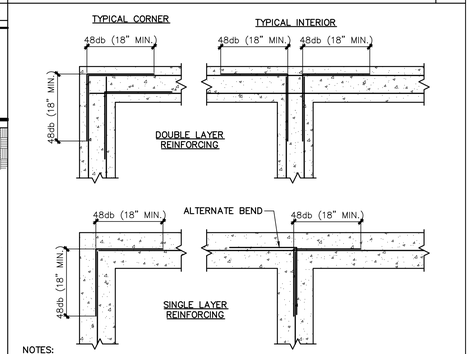
TYPICAL SLAB ON GRADE STAIRS 10



DETAIL OF PIPING SLEEVE AT FOOTING 6

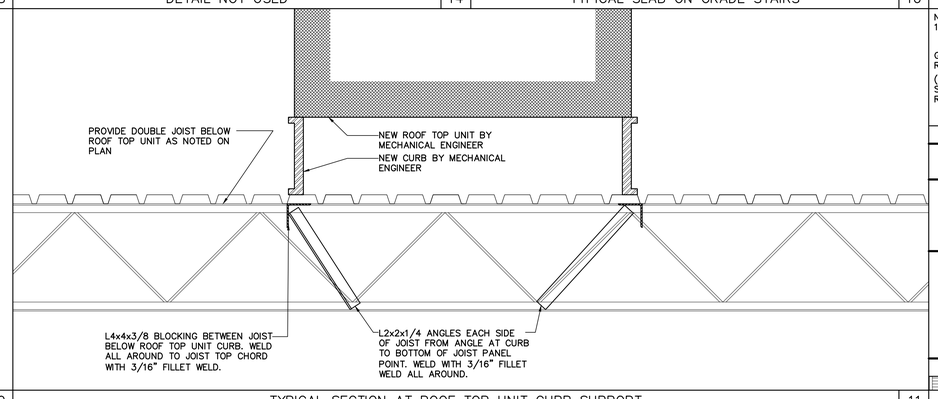


TYP. REINFORCING AT INT. OF CONCRETE FOOTINGS 2

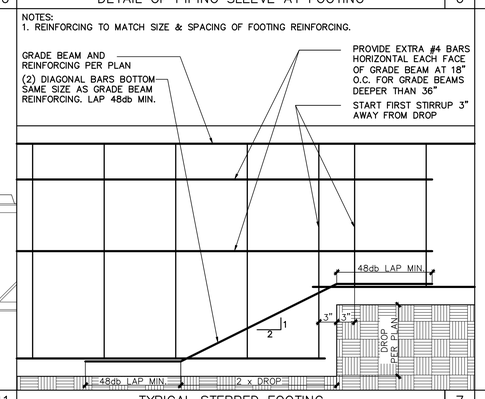


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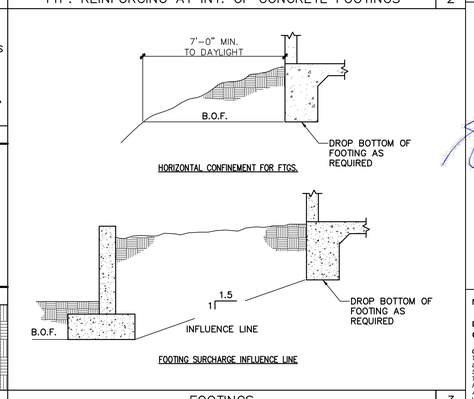
TYPICAL SECTION AT ROOF TOP UNIT CURB SUPPORT 11



TYPICAL STEPPED FOOTING 7



FOOTINGS 3

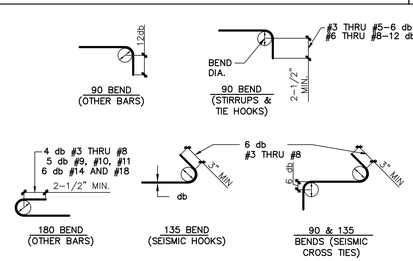


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DETAIL NOT USED 16

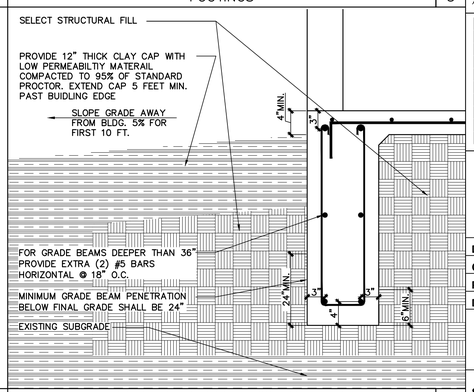
DETAIL NOT USED 12

BARS DIAMETER OF BENDS 8



DIAMETER OF BENDS	
STIRRUPS AND TIES	4 db FOR #3 THRU #5 BARS
	6 db FOR #6 THRU #8 BARS
ALL OTHERS	6 db FOR #3 THRU #8 BARS
	8 db FOR #9 THRU #11 BARS
	10 db FOR #14 THRU #18 BARS

MINIMUM GRADING AT PERIMETER GRADE BEAMS 4



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LC Falcon Conference Center Catering Staging Addition

Laredo College
1 West End Washington St.
Laredo, TX 78040

CONSTRUCTION DOCUMENTS

STATE OF TEXAS
VICTOR M. DeANDA JR.
92641
LICENSED PROFESSIONAL ENGINEER
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY VICTOR M. DE ANDA JR., P.E. 92641
EXPIRES ON 09/30/2028.

SYNERGY
STRUCTURAL ENGINEERING, INC.
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(956) 753-5860 synergy@synergy-se.com
TBPE Reg. No.: F-7661

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No.	Description	Date
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TYPICAL FOUNDATION DETAILS

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

S002

Scale

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CMU LINTEL SCHEDULE

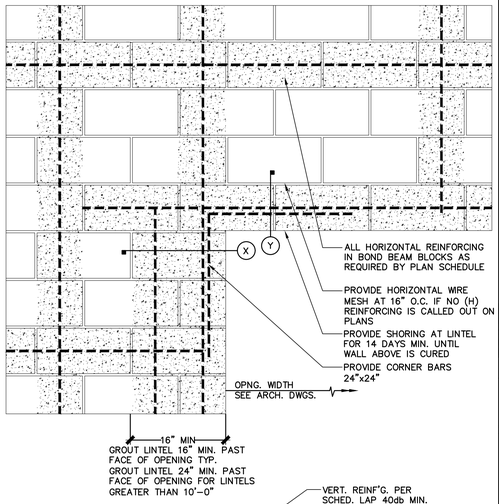
TYPICAL CMU LINTELS AT NON-BEARING WALLS

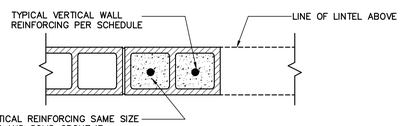
MARK	MAX. CLEAR SPAN	BLOCK WIDTH (IN)	LINTEL DEPTH (IN.)	HORIZONTAL REINFORCING	SHEAR STIRRUPS	REMARKS
LN1	3'-4"	6	8	(1) #5		
LN2	6'-8"	6	16	(1) #5 EA.		
LN3	3'-4"	8	8	(1) #5		
LN4	6'-8"	8	16	(2) #5 EA.		
LN5	8'-0"	8	24	(2) #5 EA.		
LN6	10'-0"	8	24	(2) #5 EA.		
LN7	3'-4"	12	8	(2) #5		
LN8	6'-8"	12	16	(2) #5 EA.		
LN9	8'-0"	12	24	(2) #5 EA.		
LN10	10'-0"	12	24	(2) #6 EA.		

TYPICAL CMU LINTELS AT BEARING WALLS

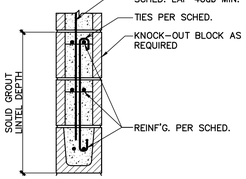
MARK	MAX. CLEAR SPAN	BLOCK WIDTH (IN)	LINTEL DEPTH (IN.)	HORIZONTAL REINFORCING	SHEAR STIRRUPS	REMARKS
LN11	3'-4"	8	8	(2) #5		
LN12	6'-8"	8	16	(2) #5 EA.	#3 @ 8" O.C.	
LN13	8'-0"	8	24	(2) #5 EA.	#3 @ 8" O.C.	
LN14	10'-0"	8	32	(2) #5 EA.	#3 @ 8" O.C.	
LN15	14'-0"	8	48	(2) #5 EA.	#3 @ 8" O.C.	SPECIAL INSPECTION
LN16	18'-0"	8	56	(2) #5 EA.	#3 @ 8" O.C.	SPECIAL INSPECTION
LN17	3'-4"	12	8	(2) #5		
LN18	6'-8"	12	16	(2) #6 EA.	#3 @ 8" O.C.	
LN19	8'-0"	12	24	(2) #6 EA.	#3 @ 8" O.C.	
LN20	10'-0"	12	32	(2) #6 EA.	#3 @ 8" O.C.	
LN21	12'-0"	12	40	(2) #6 EA.	#3 @ 8" O.C.	SPECIAL INSPECTION
LN22	14'-0"	12	48	(2) #6 EA.	#3 @ 8" O.C.	SPECIAL INSPECTION

NOTES:
(1) LOCATE FIRST STIRRUP AT 1/2 OF THE REQUIRED SPACING AWAY FROM THE FACE OF WALL SUPPORT. (I.E.: AT 8" O.C. SPACING, LOCATE 1ST STIRRUP NOT FURTHER THAN 4" FROM THE FACE OF WALL).
(2) SPECIAL INSPECTION REQUIRED BY STRUCTURAL ENGINEER OF RECORD AS NOTED ON ON SCHEDULE.
(3) SOLID GROUT FULL DEPTH OF LINTEL AND AT LEAST 8" PAST OPENING FOR LINTELS LESS THAN 8'-0" LONG AND 16" PAST OPENING FOR LINTEL LONGER THAN 8'-0".



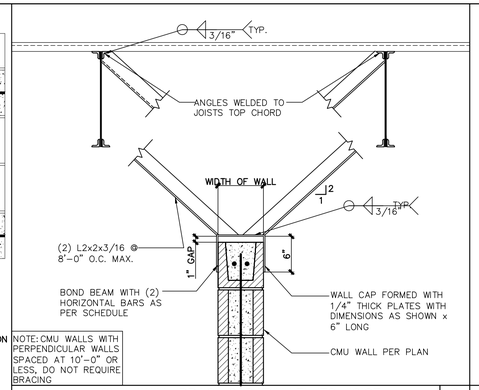


X LINTEL JAMB

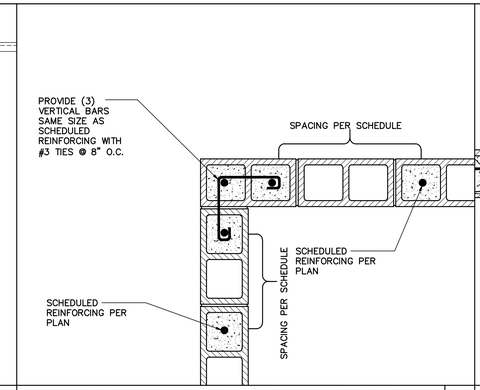


Y LINTEL SECTION

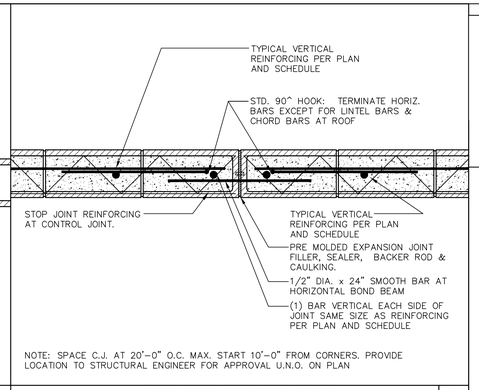
CMU LINTEL SCHEDULE | 14



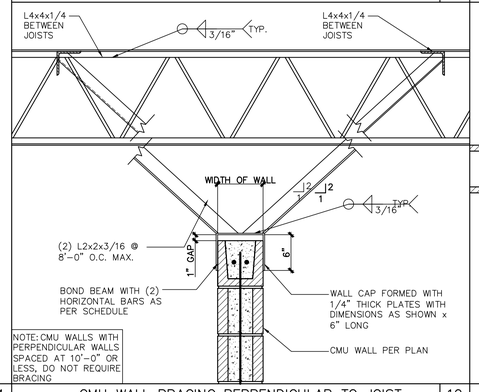
CMU WALL BRACING PARALLEL TO JOIST | 9



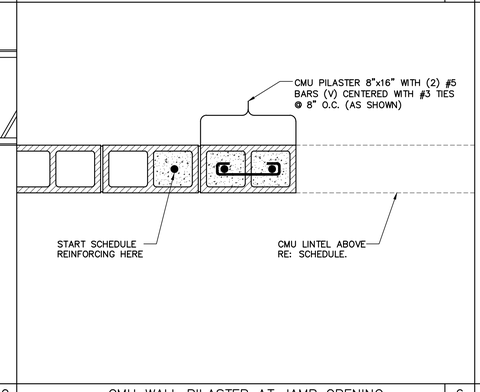
TYPICAL VERTICAL REINFORCING AT CORNERS | 5



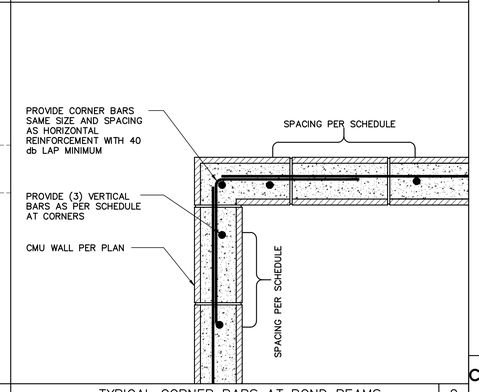
CMU WALL CONTROL JOINT | 1



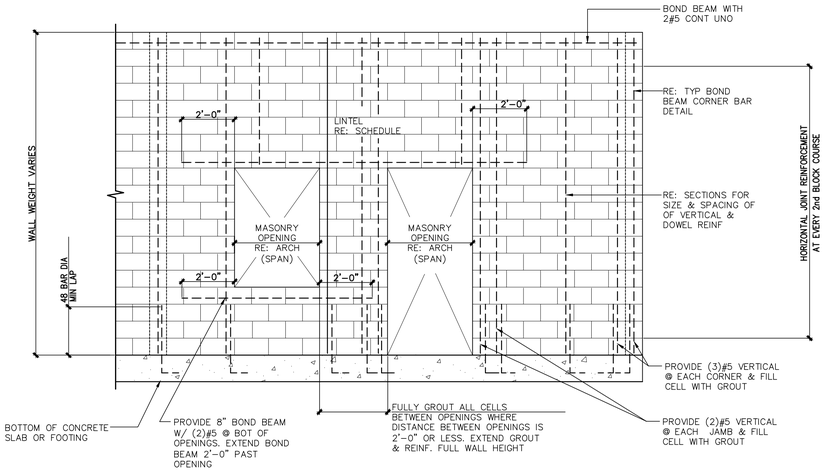
CMU WALL BRACING PERPENDICULAR TO JOIST | 10



CMU WALL PILASTER AT JAMB OPENING | 6



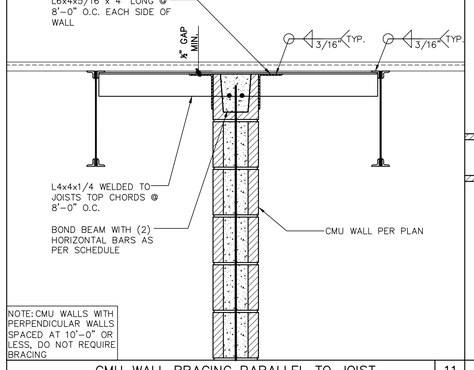
TYPICAL CORNER BARS AT BOND BEAMS | 2



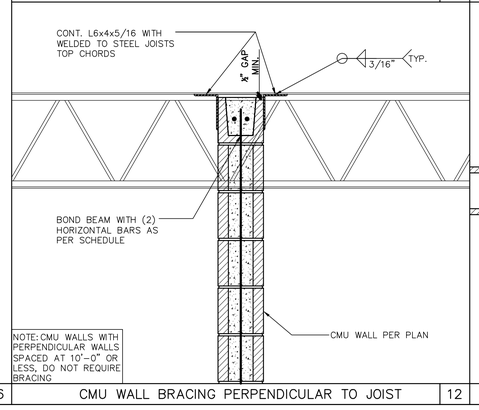
CMU WALL REINFORCING SPLICE LENGTH

BAR SIZE	MINIMUM SPLICE LENGTH (IN)
#4	24
#5	30
#6	36
#7	42
#8	48

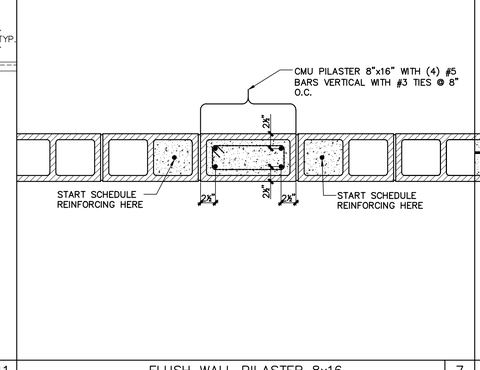
TYPICAL CMU WALL CONSTRUCTION | 16



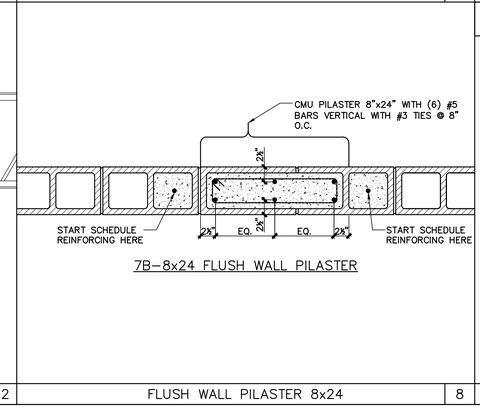
CMU WALL BRACING PARALLEL TO JOIST | 11



CMU WALL BRACING PERPENDICULAR TO JOIST | 12

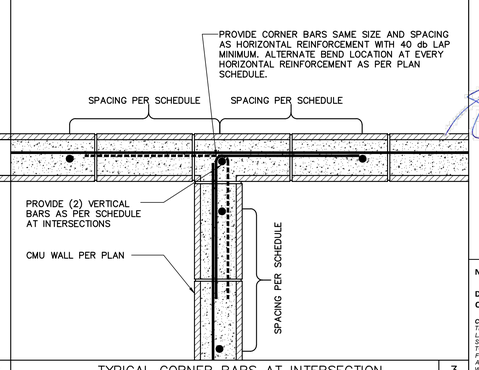


FLUSH WALL PILASTER 8x16 | 7

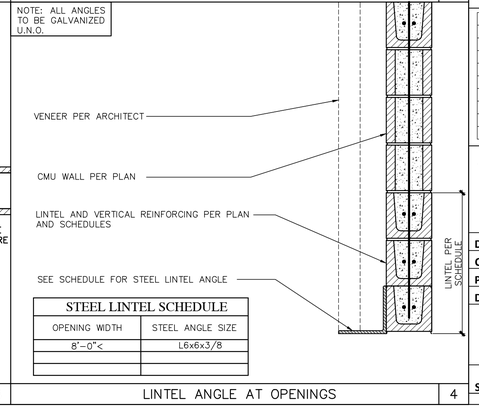


7B-8x24 FLUSH WALL PILASTER

FLUSH WALL PILASTER 8x24 | 8



TYPICAL CORNER BARS AT INTERSECTION | 3



STEEL LINTEL SCHEDULE

OPENING WIDTH	STEEL ANGLE SIZE
8'-0"<	L6x6x3/8

LINTEL ANGLE AT OPENINGS | 4

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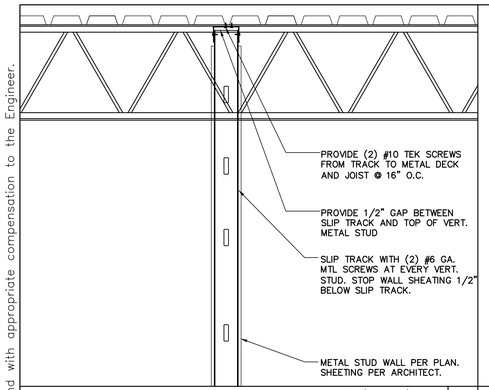
TYPICAL CMU WALL DETAILS

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

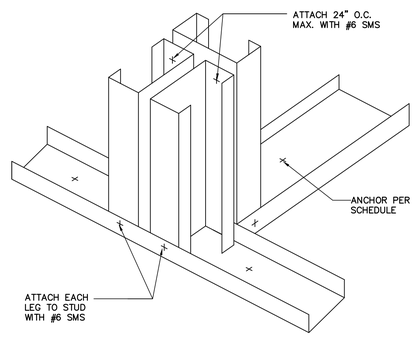
S003

Scale

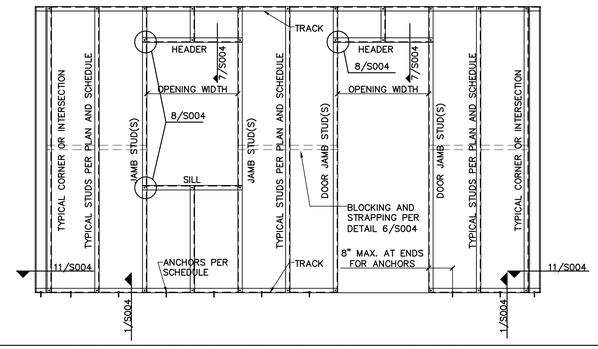
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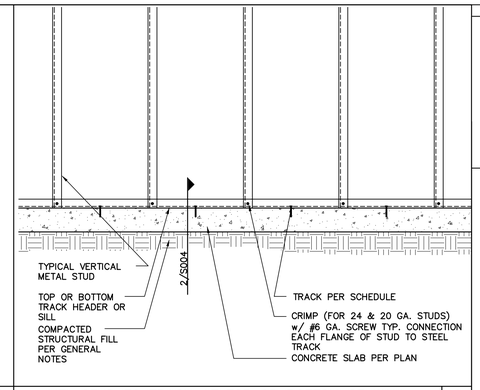
METAL STUD WALL CONNECTION TO JOISTS (PERP.) | 17



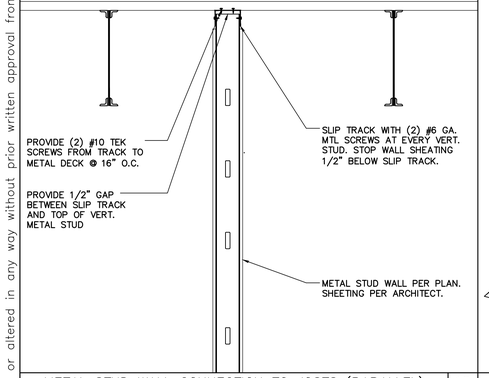
TYPICAL INTERSECTION | 13



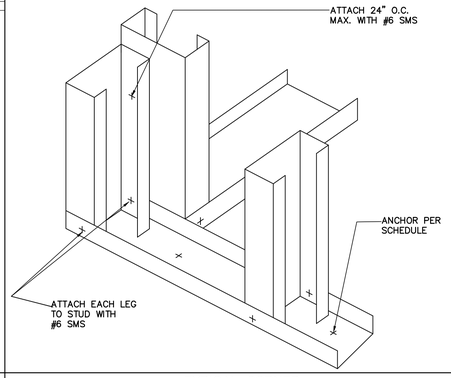
STEEL STUD BEARING AND NON–BEARING WALL ELEVATION | 5



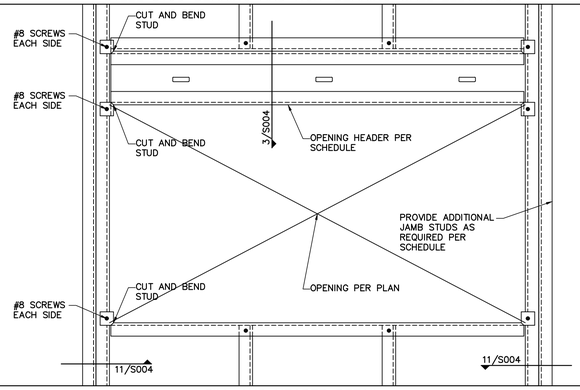
MTL STUD TO TRACK AT TOP OR BOTTOM OF WALL | 1



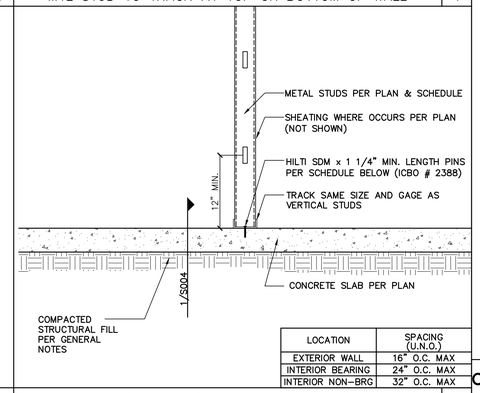
METAL STUD WALL CONNECTION TO JOSTS (PARALLEL) | 18



TYPICAL CORNER | 14

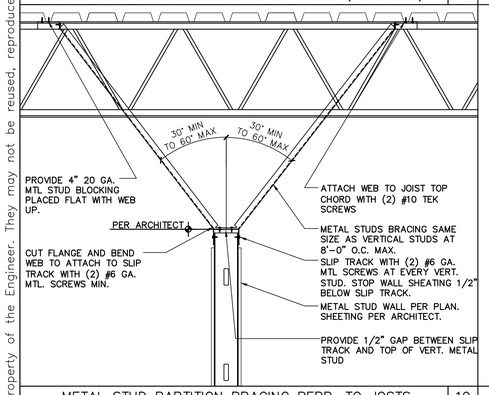


SILL AND HEADER DETAIL | 6

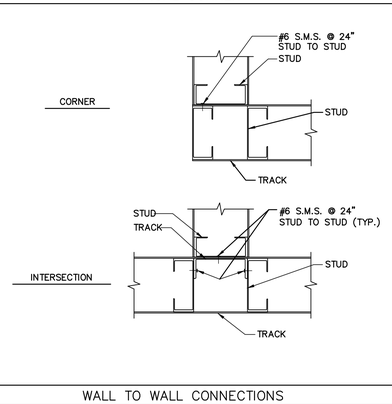


LOCATION	SPACING (U.N.O.)
EXTERIOR WALL	16" O.C. MAX
INTERIOR BEARING	24" O.C. MAX
INTERIOR NON–BRG	32" O.C. MAX

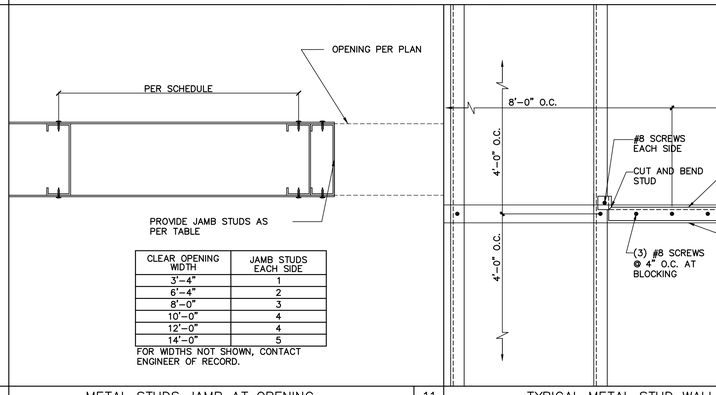
METAL STUD AT CONCRETE SLAB–ON–GRADE | 2



METAL STUD PARTITION BRACING PERP. TO JOSTS | 19



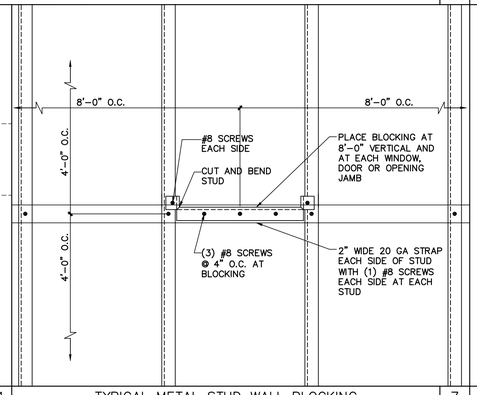
WALL TO WALL CONNECTIONS | 15



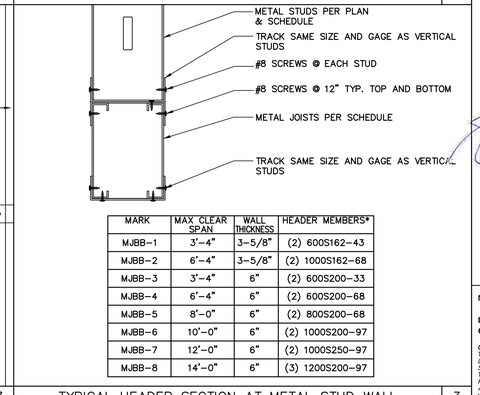
CLEAR OPENING WIDTH	JAMB STUDS EACH SIDE
3'–4"	1
6'–4"	2
8'–0"	3
10'–0"	4
12'–0"	4
14'–0"	5

FOR WIDTHS NOT SHOWN, CONTACT ENGINEER OF RECORD.

METAL STUDS JAMB AT OPENING | 11

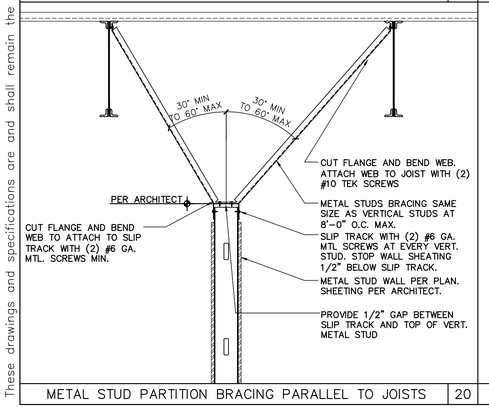


TYPICAL METAL STUD WALL BLOCKING | 7

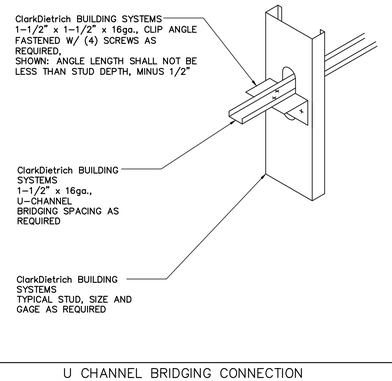


MARK	MAX CLEAR SPAN	WALL THICKNESS	HEADER MEMBERS*
MJBB–1	3'–4"	3–5/8"	(2) 600S162–43
MJBB–2	6'–4"	3–5/8"	(2) 1000S162–68
MJBB–3	3'–4"	6"	(2) 600S200–33
MJBB–4	6'–4"	6"	(2) 600S200–68
MJBB–5	8'–0"	6"	(2) 800S200–68
MJBB–6	10'–0"	6"	(2) 1000S200–97
MJBB–7	12'–0"	6"	(2) 1000S250–97
MJBB–8	14'–0"	6"	(3) 1200S200–97

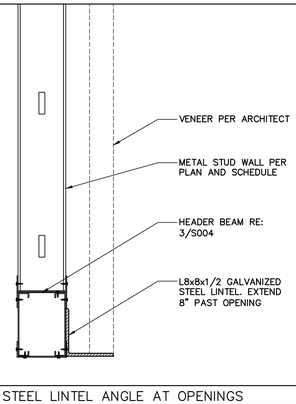
TYPICAL HEADER SECTION AT METAL STUD WALL | 3



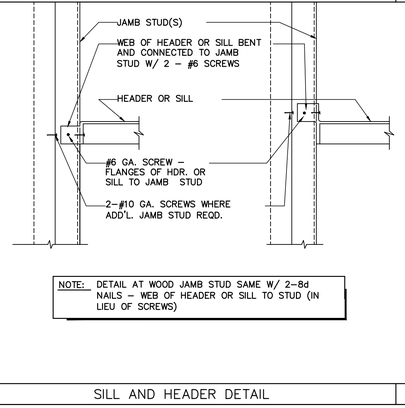
METAL STUD PARTITION BRACING PARALLEL TO JOISTS | 20



U CHANNEL BRIDGING CONNECTION | 16

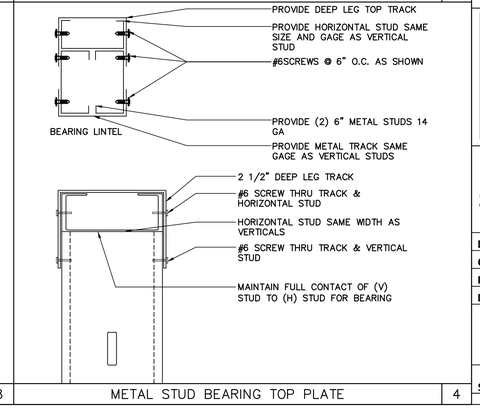


TYPICAL STEEL LINTEL ANGLE AT OPENINGS | 12



NOTE: DETAIL AT WOOD JAMB STUD SAME W/ 2–8d NAILS – WEB OF HEADER OR SILL TO STUD (IN LIEU OF SCREWS)

SILL AND HEADER DETAIL | 8



METAL STUD BEARING TOP PLATE | 4

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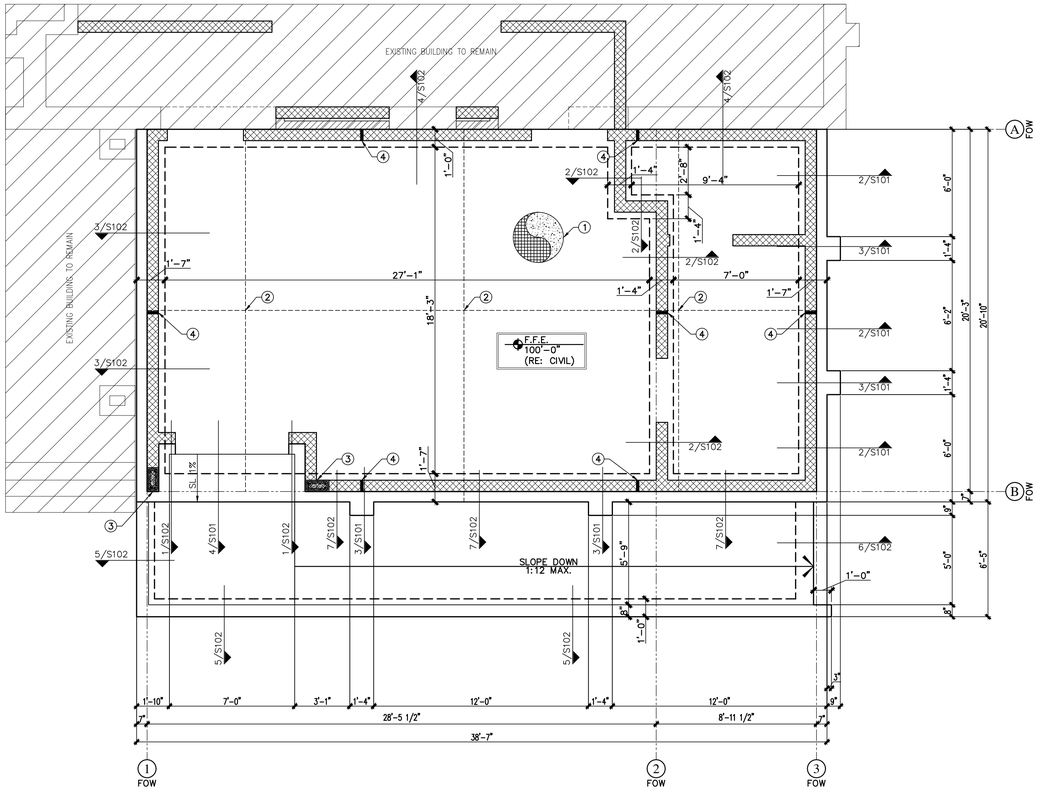
TYPICAL METAL STUD WALL DETAILS

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

S004

Scale

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1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION NOTES

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE SHEET S002 FOR TYPICAL FOUNDATION DETAILS, SHEET S003 FOR TYPICAL CMU WALL DETAILS AND SHEET S004 FOR TYPICAL METAL STUD WALL DETAILS.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL FLOOR DRAINS (F.D.) AND FLOOR DEPRESSIONS WHETHER OR NOT THEY ARE NOTED ON THE STRUCTURAL NOTES OR PLANS.
4. DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION, COORDINATE WITH ARCHITECTURAL PLANS.
5. CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS WITH ARCHITECTURAL PLANS BEFORE COMMENCING ANY WORK, THE CONTRACTOR/ SUBCONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER BEFORE THE WORK HAS BEGUN.
6. WALL LEGEND:
   - INDICATES EXISTING WALL TO REMAIN
   - INDICATES 6" NEW CMU WALL
   - INDICATES 8" NEW CMU WALL
   - REFER TO CMU WALL SCHEDULE FOR REINFORCING.
7. ABBREVIATIONS:
   - CLC=CENTER LINE COLUMN
   - CLW=CENTER LINE WALL
   - FOC=FACE OF COLUMN
   - FOW=FACE OF WALL
   - FFE=FINISH FLOOR ELEVATION
8. ALL ELEVATIONS REFERENCED HEREIN, ARE FROM THE BUILDING FINISH FLOOR ELEVATION OF 100'-0". REFER TO CIVIL PLANS FOR FINAL BUILDING ELEVATION.
9. REFER TO DETAIL 1/S003 FOR CMU CONTROL JOINTS, UNLESS NOTED OTHERWISE, CONTROL JOINTS SHALL START AT 10 FT FROM EDGES OR CORNERS AND 20 FT O.C. IN BETWEEN. PROVIDE LOCATION OF CONTROL JOINTS FOR ENGINEER OF RECORD TO APPROVE BEFORE ERECTION OF WALLS.
10. REFER TO CIVIL PLANS FOR RAMPS, STAIRS & SIDEWALKS.

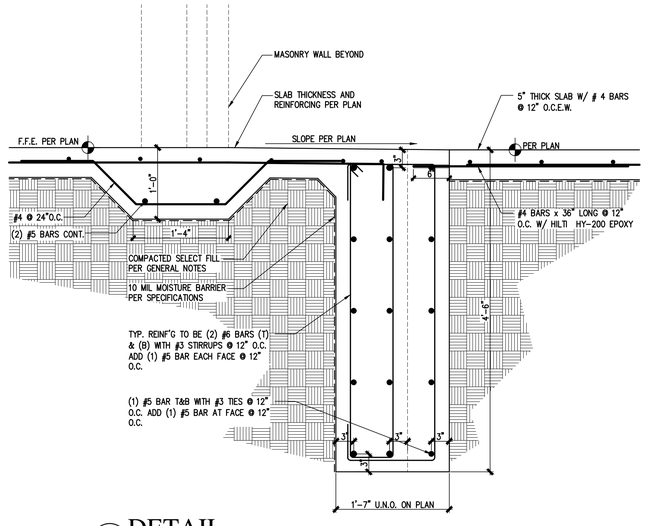
KEYED FOUNDATION NOTES

1. 5" THICK SLAB ON GRADE WITH #4 BARS @ 15" O.C. EACH WAY AT MID-DEPTH OF SLAB OVER 10 MIL VISQUEEN MOISTURE BARRIER OVER APPROVED COMPACTED FILL.
2. SLAB CONTROL JOINTS, SEE DETAIL 1/S002.
3. CMU FLUSH WALL PILASTER 8x16 WITH (4) #5 BARS VERTICAL WITH #3 TIES @ 8" O.C. RE: 7/S003.
4. CMU WALL CONTROL JOINTS RE: 1/S003.

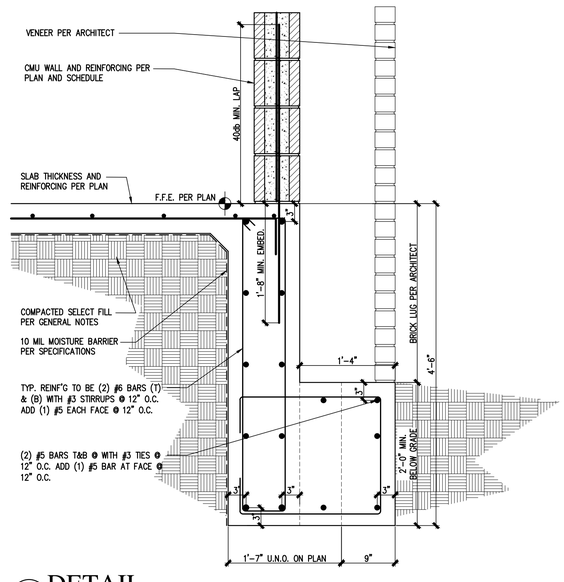
CMU WALL REINFORCING SCHEDULE

WALL TYPE	t	REINFORCING- SEE FOOT NOTE (1)	FOOT NOTE	SPEC. INSP.
WL-1	6"	#4 BARS (V) @ 48" O.C. CTR. & (1) #5 BAR @ 5'-4" O.C. (H)	(2)	NO
WL-2	8"	#5 BARS (V) @ 48" O.C. CTR. & (2) #5 BAR @ 5'-4" O.C. (H)	(3)	NO

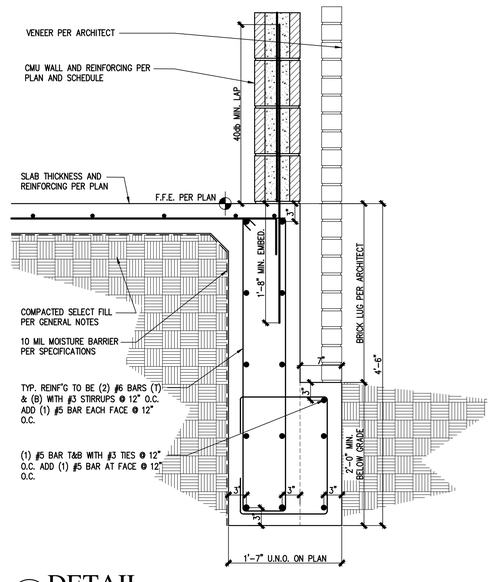
(1)ALL HORIZONTAL (H) REINFORCEMENT TO OCCUR IN CONTINUOUS BOND BEAMS SPACED AS INDICATED IN THE SCHEDULE ABOVE.
(2)TYP. 6" CMU INTERIOR BEARING/NON-BEARING WALL U.N.O.
(3)TYP. 8" CMU INTERIOR BEARING/NON-BEARING WALL U.N.O.



4 DETAIL
SCALE: 1" = 1'-0"



3 DETAIL
SCALE: 1" = 1'-0"



2 DETAIL
SCALE: 1" = 1'-0"

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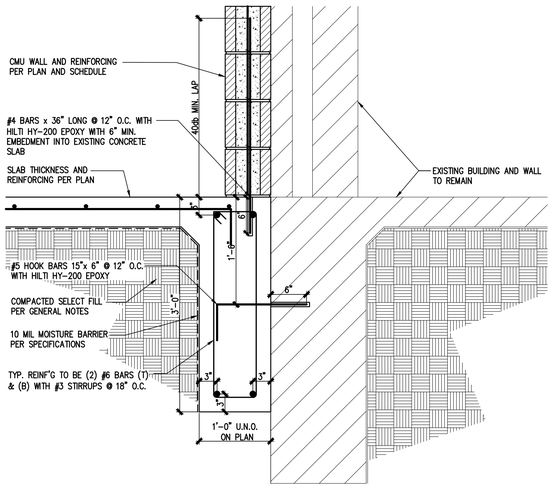
FOUNDATION PLAN AND DETAILS

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

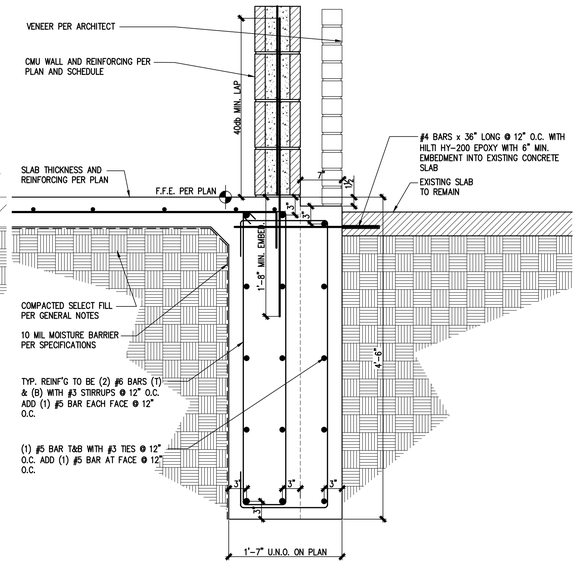
S101

Scale

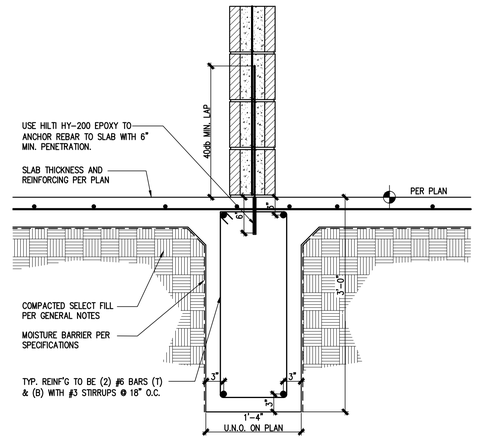
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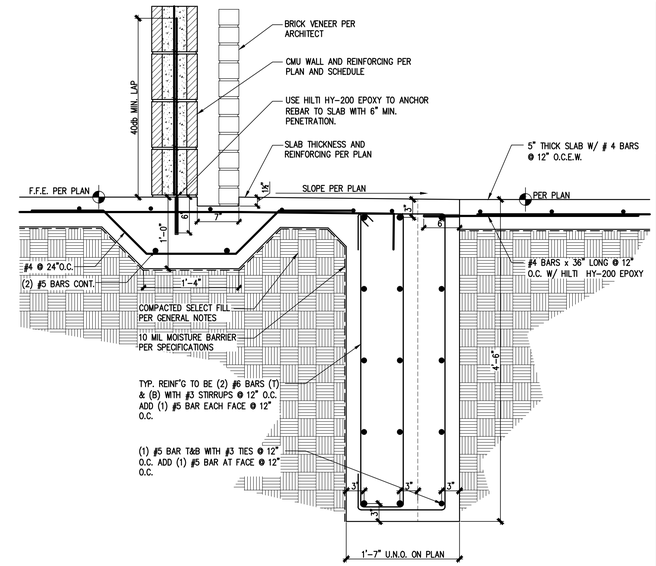
4 DETAIL
SCALE: 1" = 1'-0"



3 DETAIL
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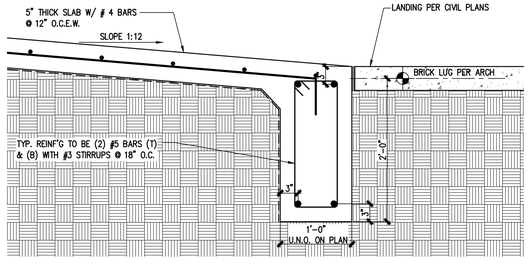


2 DETAIL
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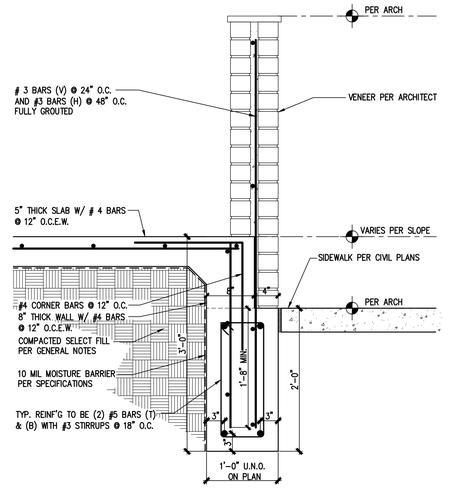


1 DETAIL
SCALE: 1" = 1'-0"

7 DETAIL
SCALE: 1" = 1'-0"



6 DETAIL
SCALE: 1" = 1'-0"



5 DETAIL
SCALE: 1" = 1'-0"

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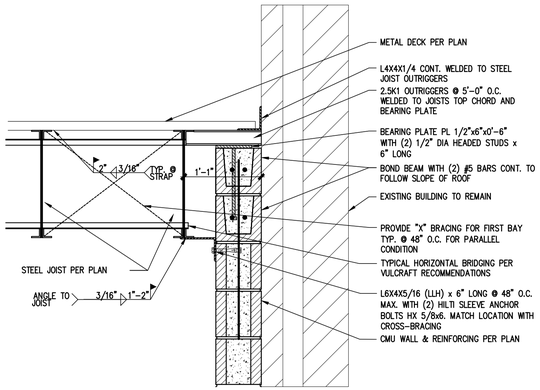
FOUNDATION DETAILS

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

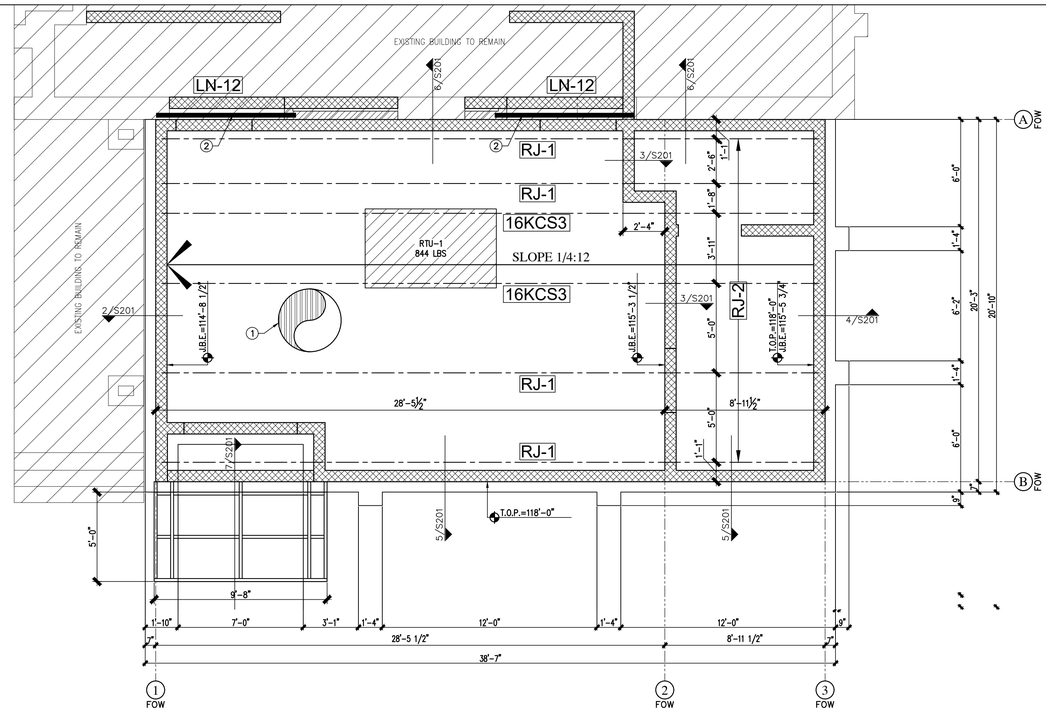
S102

Scale

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6 DETAIL
SCALE: 1" = 1'-0"



1 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

FRAMING GENERAL NOTES

1. SEE SHEET S001 FOR GENERAL NOTES.
2. SEE SHEET S002 FOR TYPICAL FOUNDATION DETAILS, SHEET S003 FOR TYPICAL CMU WALL DETAILS AND SHEET S004 FOR TYPICAL METAL STUD WALL DETAILS.
3. REFER TO MECHANICAL AC DRAWINGS FOR LOCATION AND SIZE OF REFRIGERANT PIPING AND DUCT WORK, MECHANICAL UNITS, WEIGHTS, & SUPPORTS.
4. DIMENSIONS SHOWN ARE FOR GENERAL INFORMATION, COORDINATE WITH ARCHITECTURAL PLANS.
5. WALL LEGEND:
   - INDICATES EXISTING WALL TO REMAIN
   - INDICATES 6" NEW CMU WALL
   - INDICATES 8" NEW CMU WALL
   - REFER TO CMU WALL SCHEDULE FOR REINFORCING.
6. ABBREVIATIONS:
   CLC=CENTER LINE COLUMN
   CLW=CENTER LINE WALL
   FOC=FACE OF COLUMN
   FOW=FACE OF WALL
   FFE=FINISH FLOOR ELEVATION
7. REFER TO DETAILS 9 THRU 12/S003 FOR TYPICAL INTERIOR PARTITION TOP OF WALL BRACING
8. ALL ELEVATIONS REFERENCED HEREIN, ARE FROM THE BUILDING FINISH FLOOR ELEVATION OF 100'-0", REFER TO CIVIL PLANS FOR FINAL BUILDING ELEVATION.
9. REFER TO DETAIL 11/S002 FOR TYPICAL ROOF TOP UNIT CURB SUPPORT.
10. REFER TO DETAILS 9 THROUGH 12/S003 FOR TYPICAL CMU TOP OF WALL BRACING DETAILS.

KEYED FRAMING NOTES

① ROOFING PER ARCHITECT OVER STRUCTURAL METAL DECK 1.5B 22 GA. WITH SCREW PATTERN 36/4 WITH #12 TEKS AT SUPPORT AND #10 TEKS AT SIDE LAPS (5 PER SPAN).

② NEW STEEL LINTEL ANGLE L6x6x3/8 EXTENDING 8" PAST OPENING TO SUPPORT EXISTING BRICK AT NEW OPENING. REFER TO ARCHITECTURAL PLANS FOR OPENING LOCATION AND DIMENSIONS.

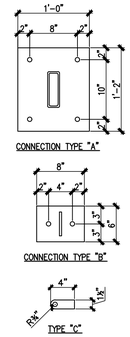
ROOF OPEN WEB STEEL JOISTS SCHEDULE

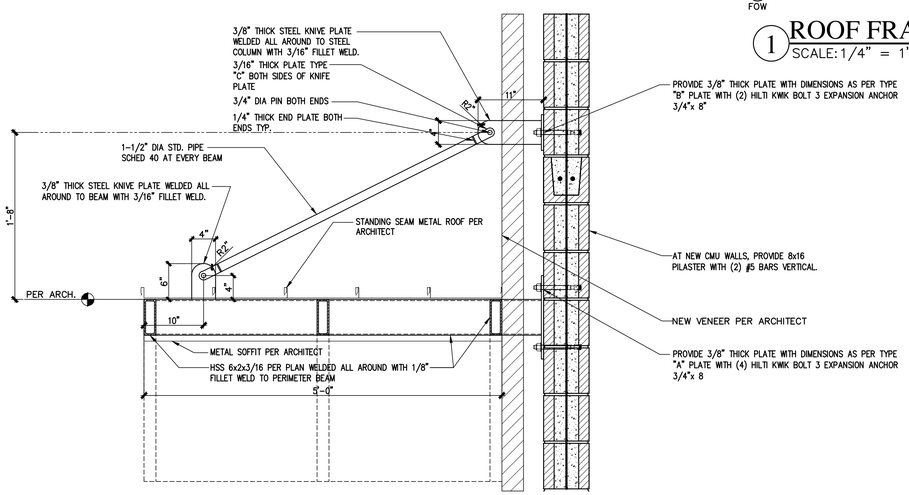
MARK	DESIGNATION	SPACING	BEARING SEATS	REMARKS
RJ-1	16K3	5-0" O.C	STD.	NONE
RJ-2	10K1	5-0" O.C	STD.	NONE

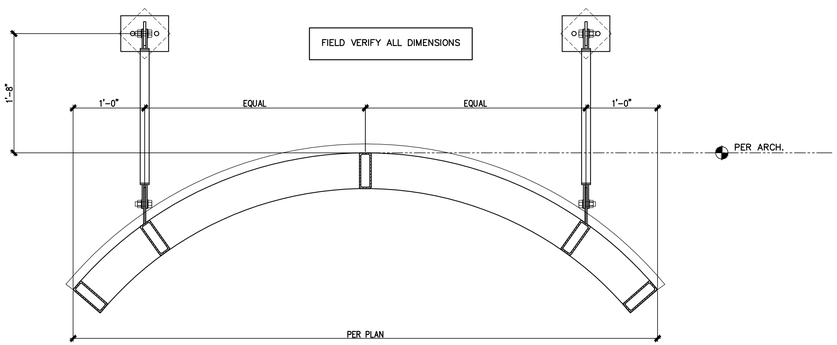
NOTES:
(1) SHORT TERM AXIAL LOAD, TENSION OR COMPRESION TO BE CARRIED CONCURRENTLY BY JOISTS/GIRDERS IN ADDITION TO ALL OTHER DESIGN LOADS.

(2) MANUFACTURER TO PROVIDE REQUIRED HORIZONTAL AND DIAGONAL BRIDGING & THE SIZE & ROWS REQUIRED SHALL BE AT A MINIMUM FOLLOW VULCRAFT RECOMMENDATIONS.

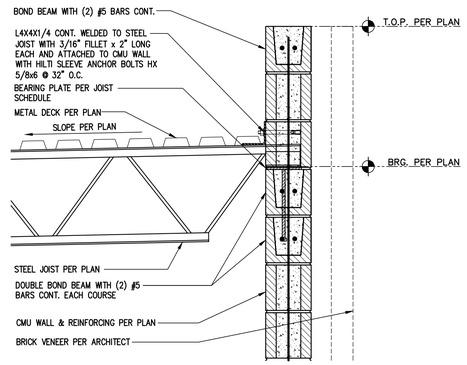
(3) TYPICAL BEARING PLATE U.N.O. ON CMU BLOCK WHEN REQUIRED TO BE AS FOLLOWS:
TYPE "A": PL 1/2"x6"x10" WITH (2) 1/2" DIA. N.S. x 12" LONG FOR SINGLE JOIST BEARING ON 8" OR 12" CMU
TYPE "B": PL 1/2"x8"x10" WITH (2) 1/2" DIA. N.S. x 12" LONG FOR DOUBLE JOIST BEARING ON 8" CMU



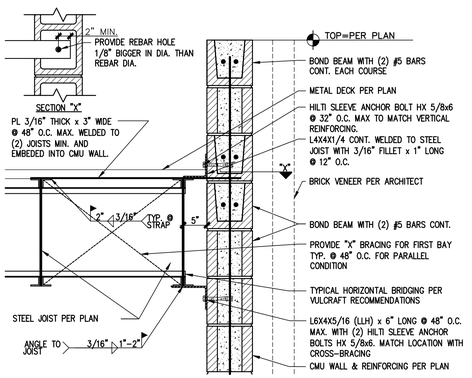




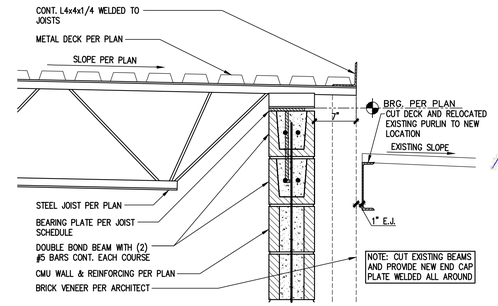
7 DETAIL
SCALE: 1" = 1'-0"



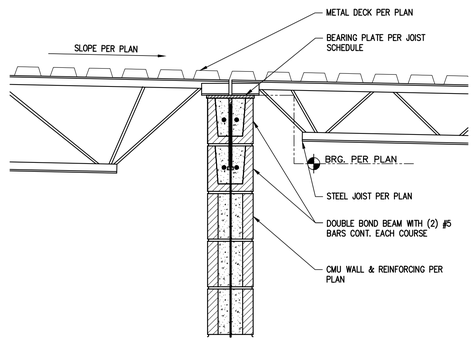
4 DETAIL
SCALE: 1" = 1'-0"



5 DETAIL
SCALE: 1" = 1'-0"



2 DETAIL
SCALE: 1" = 1'-0"



3 DETAIL
SCALE: 1" = 1'-0"

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FRAMING PLANS AND DETAILS

Drawn by:	VDA
Checked by:	VDA
Project number	SSE-26-002
Date	SEPTEMBER 16, 2026.

S201

Scale

GENERAL NOTES - MECHANICAL:

(1) THE MECHANICAL CONTRACTOR IS FULLY RESPONSIBLE FOR PERFORMING THE WORK IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES UNDER THIS SECTION OF THE CONTRACT. IF THE CONTRACTOR DETERMINES THAT THE CONTRACT DOCUMENTS AND PLANS ARE NOT IN COMPLIANCE WITH THE APPLICABLE LOCAL CODES, HE/SHE SHALL INFORM THE ARCHITECT PRIOR TO CONSTRUCTION START FOR DIRECTION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO MEET APPLICABLE LOCAL CODES, AND RE-WORK SHALL BE AT CONTRACTOR'S EXPENSE.

(2) CONTRACTOR SHALL HANG AND INSTALL ALL DUCTWORK FLUSH WITH THE BUILDING STRUCTURE TO ACCOMMODATE NEW CEILINGS. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH ARCHITECTURAL AND ELECTRICAL DESIGN. ALL DUCTWORK SHALL BE MODIFIED AS NECESSARY AND REQUIRED TO FIT AROUND BUILDING STRUCTURES, ARCHITECTURAL BUILD-OUT AND ELECTRICAL CABLE TRAY INSTALLATIONS. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(3) CONNECT EACH DIFFUSER TO THE MAIN DISTRIBUTION DUCTS WITH A FLEX-DUCT SECTION; CONNECTIONS SHALL BE COMPLETED IN ACCORDANCE WITH THE DETAIL. EACH FLEX-DUCT CONNECTION SHALL INCLUDE A BUTTERFLY DAMPER TO BE INSTALLED AT THE TRUNK DUCT.

(4) CONTRACTOR SHALL PROVIDE ALL DUCTWORK REQUIRED TO COMPLETE THE HVAC SYSTEM. TIE IN BRANCH DUCTS TO MAIN DUCTS WITH SHEET METAL FLANGES. FLANGE CONNECTION SHALL BE FASTENED WITH CRIMPED SHEET METAL STRIPS AND SEALED WITH SILICONE CAULK.

(5) CONTRACTOR SHALL SUPPLY AND INSTALL FIRE DAMPERS AND ACCESS DOORS IN THE HORIZONTAL DUCTS WHERE THEY PENETRATE FIRE WALLS & BARRIERS.

(6) ALL OPENINGS CUT IN MASONRY AND PLASTER WALLS OR CONCRETE FLOORS SHALL BE CORE DRILLED OR SAWED WHEN POSSIBLE. CONTRACTOR SHALL CHECK BUILDING CONSTRUCTION BEFORE MAKING PENETRATIONS TO AVOID CUTTING THROUGH STRUCTURAL BEAMS AND REINFORCING. CONTRACTOR SHALL INFORM THE ENGINEER IF REINFORCING IS CUT OR DAMAGED WHILE MAKING OPENINGS. CONTRACTOR SHALL REINFORCE ALL OPENINGS AS REQUIRED BY DRAWINGS AND SPECIFICATIONS. PATCH AND SEAL OPENINGS WITH 8000 PSI CEMENT GROUT. INSTALL DECORATIVE TRIM (EQUIPMENT FLANGES, FRAMING OR ESCUTCHEONS) AROUND OPENINGS IN FINISHED AREAS. COORDINATE ALL CUTTING AND PATCHING WITH THE OTHER TRADES

(7) ON ANY WORK SHOWN ON MECHANICAL DRAWINGS REQUIRING DEMOLITION OF EXISTING OR NEW BUILDING STRUCTURES AND FINISHES, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE THE NECESSARY DEMOLITION. CONTRACTOR SHALL PATCH AND REPAIR ALL DEMOLITION WORK. PATCHING SHALL BE COMPLETED WITH THE SAME MATERIALS AS THE SURROUNDING AREAS, OR WITH ARCHITECT-APPROVED PATCHING MATERIALS. REPAIRS SHALL BE COMPLETED ACCORDING TO ARCHITECTURAL SPECIFICATIONS. ALL REFINISHING SHALL BE APPROVED BY THE ARCHITECT.

(8) CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETING THE INSTALLATION OF THE AIR DISTRIBUTION SYSTEM SHOWN. DUCTWORK, DUCT ACCESSORIES AND CONTROLS SHOWN AND REQUIRED SHALL BE SUPPLIED AND INSTALLED. ALL INSTALLATION WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE CODES, INCLUDING NFPA 90A AND 90B.(NFPA 90A: STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS)(NFPA 90B: STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS)

(9) CONTRACTOR SHALL BALANCE ALL AIR DISTRIBUTION SYSTEMS TO ACHIEVE THE AIR VOLUME REQUIREMENTS INDICATED. BALANCING SHALL INCLUDE ADJUSTMENT OF ALL MANUAL VOLUME DAMPERS, SHUTTER DAMPERS, ZONE DAMPERS (IF REQUIRED), BUTTERFLY DAMPERS AND INDIVIDUAL DIFFUSER VOLUME DAMPERS (FINAL BALANCING ONLY). CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A COMPLETE BALANCING REPORT WHICH INCLUDES, VOLUME, ROOM REFERENCE AND ZONE VOLUME TOTALS.

(10) MOUNT ALL THERMOSTATS (SENSORS) 48" ABOVE THE FINISHED FLOOR LEVEL. THERMOSTATS SHOWN SHALL BE IN CONTROL OF THE ZONE SYSTEM WHICH IS SUPPLYING AIR TO THE AREA WHERE THE THERMOSTAT IS LOCATED. CONTRACTOR SHALL SUPPLY AND INSTALL ALL CONTROL VOLTAGE WIRING AND CONDUIT FOR THERMOSTAT (DDC CONTROL) INSTALLATION.

(11) CONTRACTOR SHALL INSTALL NEW REFRIGERANT PIPING FLUSH WITH THE BUILDING STRUCTURE AND MECHANICAL ROOM BOUNDARIES AS SHOWN. CONTRACTOR SHALL COORDINATE ALL INSTALLATION WORK WITH DUCTS AND ELECTRICAL CONDUIT. MECHANICAL CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE WORK SCOPE OF OTHER TRADES AND PARTICIPATE IN COORDINATING ALL CONSTRUCTION EFFORTS.

(12) ALL PIPING SHALL BE INSULATED AND JACKETED. REFER TO THE SPECIFICATIONS. THE CONDENSING AND ROOF TOP CONDENSER COILS ARE TO BE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

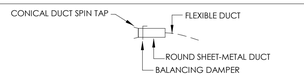
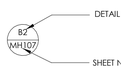
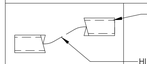
(13) PROVIDE EACH HVAC SYSTEM OF 2000 CFM & GREATER W/ DUCT SMOKE DETECTOR(S) IN COMPLIANCE WITH IBC 907.2.13.1.2 & 907.3.1 IN RETURN AIR DUCTWORK TO SHUTDOWN CONTROLS ON AIR HANDLERS AND SUPPLY FANS. SMOKE DETECTORS SHALL BE PROVIDED BY MECHANICAL & INSTALLED BY ELECTRICAL (OR REGISTERED FIRE ALARM COMPANY WHERE APPLICABLE). COORDINATE W/ EQUIPMENT MANUFACTURER & AUTHORITY HAVING JURISDICTION FOR RECOMMENDED MOUNTING LOCATION AND METHOD. COORDINATE TO PROVIDE A COMPLETE SYSTEM. PROVIDE BOTH SUPPLY AND RETURN SIDE DEVICES.

(14) PROVIDE SEVEN DAY PROGRAMMABLE THERMOSTAT, 24 HOUR SINGLE/MULTI STAGE COMMERCIAL THERMOSTAT, DUAL SET POINTS, OCCUPIED AND UNOCCUPIED PERIODS, UNIT OPTIMIZATION, AUTO HEATING/COOLING AND AUTO CHANGE OVER. SUB-BASE BACK-UP BATTERY AND TEMPORARY OVER-RIDE. 24 VAC CONTROL VOLTAGE. PROVIDE PLASTIC SEE THRU PROTECTIVE COVER WITH KEY LOCK.

(15) **FILTER INSTALLATION AND REPLACEMENT**
- A. INSTALL CONSTRUCTION RETURN FILTER AT EACH RETURN GRILLE BEFORE OPERATING PERMANENT AIR HANDLERS DURING CONSTRUCTION.
- B. REPLACE FILTERS AFTER COMPLETING CONSTRUCTION AND BEFORE CONDUCTING BUILDING FLUSH-OUT.
  1. REPLACE CONSTRUCTION RETURN FILTERS WITH FLUSH-OUT RETURN FILTERS.
  2. REPLACE SUPPLY FILTERS.

(16) **PRIOR TO START UP**
- A. CONTRACTOR SHALL FOLLOW THE AIR CONDITIONING EQUIPMENT MANUFACTURER'S STARTUP CHECKLIST.
  1. CONTRACTOR SHALL MAKE SURE THAT ALL DUCTWORK IS CLEAN AND THAT FILTERS ARE PROVIDED FOR EACH UNIT. IF INTERIOR CONDITIONS ARE NOT CLEAN AND AIR BORN DUST IS STILL PRESENT, TEMPORARY FILTERS SHALL BE PROVIDED AT EVERY RETURN AIR GRILLE.

MECHANICAL SYMBOL LEGEND

	
	
	
	
	SUPPLY AIR GRILLE SUPPLY AIR GRILLE-SLOT DIFFUSER
	RETURN AIR GRILLE ALL RETURN AIR DUCT DROPS TO INCLUDE A MANUAL DAMPER
	THERMOSTAT TEMPERATURE SENSOR TEMPERATURE OVERRIDE SENSOR/SWITCH
	FD FSD FIRE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR FIRE/SMOKE DAMPER W/ ACCESSIBLE DUCT ACCESS DOOR
	FLOW DIRECTION
	PIPE DROP
	PIPE RISE
	RETURN AIR DUCT RISE/DROP
	SUPPLY AIR DUCT RISE/DROP
	WALL OR FLOOR SLEEVE
	CHILLED WATER SUPPLY/RETURN PIPING
	SQUARE TO ROUND DUCT TRANSITION

MECHANICAL ABBREVIATIONS

A/C	AIR CONDITIONED	MAX	MAXIMUM
AD	ACCESS DOOR	MBD	MANUAL BALANCING DAMPER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
AHU	AIR HANDLING UNIT	MECH	MECHANICAL
APPROX	APPROXIMATE	MIN	MINIMUM
ARCH	ARCHITECTURAL	MS	MOTOR STARTER
BDD	BACK DRAFT DAMPER	NA	NOT APPLICABLE
BHP	BRAKE HORSEPOWER	NC	NORMALLY CLOSED
BTU	BRITISH THERMAL UNIT	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CH	CHILLER	NTS	NOT TO SCALE
CHP	CHILLED WATER PUMP		
CLG	CEILING	OA	OUTSIDE AIR
CWP	CONDENSER WATER PUMP	OAH	OUTSIDE AIR INTAKE HOOD
CO	CLEANOUT	OBD	OPPOSED BLADE DAMPER
CT	COOLING TOWER	OC	ON CENTER
CU	CONDENSING UNIT		
CW	COLD WATER	P	PUMP
CL	CENTER LINE	PBD	PARALLEL BLADE DAMPER
		PP	PRIMARY CHILLED WATER PUMP
DB	DRY BULB	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSIG	POUNDS PER SQUARE INCH (GAUGE)
DWG	DRAWING		
DX	DIRECT EXPANSION	R	RETURN (AIR DEVICE)
EAT	ENTERING AIR TEMPERATURE	RA	RETURN AIR
EDH	ELECTRIC DUCT HEATER	RE: 4M7.01	REFER TO DETAIL 4, SHEET M7.01
EF	EXHAUST FAN	RET	RETURN
ELEC	ELECTRICAL	RH	RELATIVE HUMIDITY
ELEV	ELEVATION	RHD	RELIEF HOOD
F	DEGREES FAHRENHEIT	RPM	REVOLUTIONS PER MINUTE
FC	FAN COIL	RTU	ROOF TOP UNIT
FD	FIRE DAMPER W/ DUCT ACCESS DOOR		
FLEX	FLEXIBLE	S	SUPPLY (AIR DEVICE)
FLG	FLANGE	SA	SUPPLY AIR
FLR	FLOOR	SCH	SCHEDULE
FPM	FEET PER MINUTE	SCHP	SECONDARY CHILLED WATER PUMP
FT	FEET, FOOT	SD	SMOKE DAMPER
FS	FLOW SWITCH	SEC	SECOND
		SF	SUPPLY FAN
GAL	GALLON	SMACNA	SHEET METAL AND AIR CONDITIONING
GALV	GALVANIZED		CONTRACTORS NATIONAL ASSOCIATION
GPM	GALLONS PER MINUTE	SP	STATIC PRESSURE
HB	HOSE BIBB	SPEC	SPECIFICATION
HP	HORSEPOWER	SF	SQUARE FOOT
HR	HEAT PUMP (WATER SOURCE)	STD	STANDARD
HR	HOUR		
HVAC	HEATING/VENTILATING/ AIR CONDITIONING	TEMP	TEMPERATURE
		TSTAT	THERMOSTAT
HWP	HOT WATER PUMP	TYP	TYPICAL
HZ	HERTZ		
		UF	UNDER FLOOR
ID	INSIDE DIAMETER	UH	UNIT HEATER
IE	INVERT ELEVATION (FLOW LINE)	UL	UNDERWRITERS LABORATORIES
IN	INCHES		
INSUL	INSULATION	VEL	VELOCITY
IN WG	INCHES OF WATER	VENT	VENTILATE
		VF	VENTILATION FAN
KW	KILOWATT(S)	VOL	VOLUME
		VOLT	VOLTAGE
LAT	LEAVING AIR TEMPERATURE	W	WIDE, WIDTH
LB	POUND	W/	WITH
L	LOUVER	WB	WET BULB
		W/O	WITHOUT

APPLICABLE BUILDING CODE

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL PLUMBING ELECTRICAL CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION
2021 INTERNATIONAL FIRE CODE
2012 TEXAS ACCESSIBILITY STANDARDS
2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
2021 INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE

INDEX OF SHEETS MECHANICAL

Sheet Number	Sheet Name
M-000	MECHANICAL NOTES AND LEGEND
M-100	MECHANICAL FLOOR PLAN
M-200	MECHANICAL CONTROLS
M-300	MECHANICAL SCHEDULES
M-400	MECHANICAL DETAILS

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No.	Description	Date

KEY PLAN

MECHANICAL NOTES AND LEGEND

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

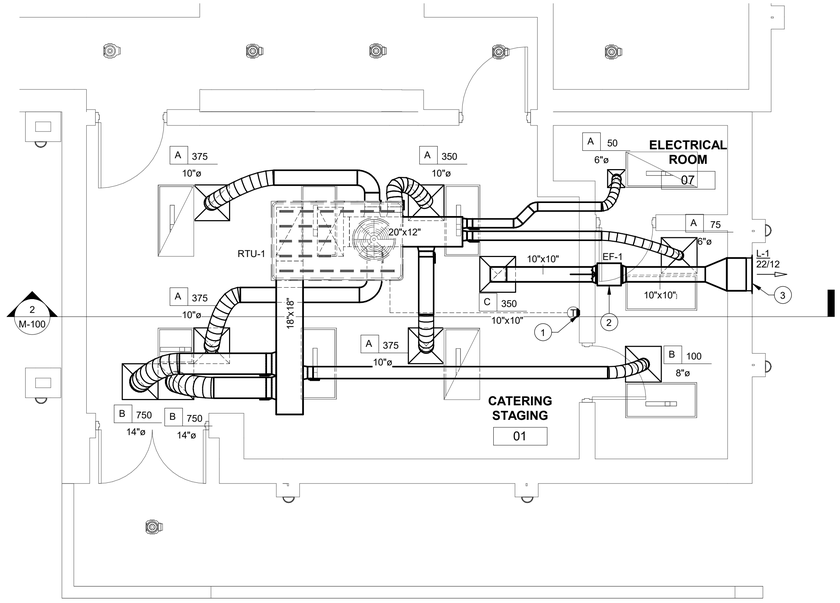
M-000

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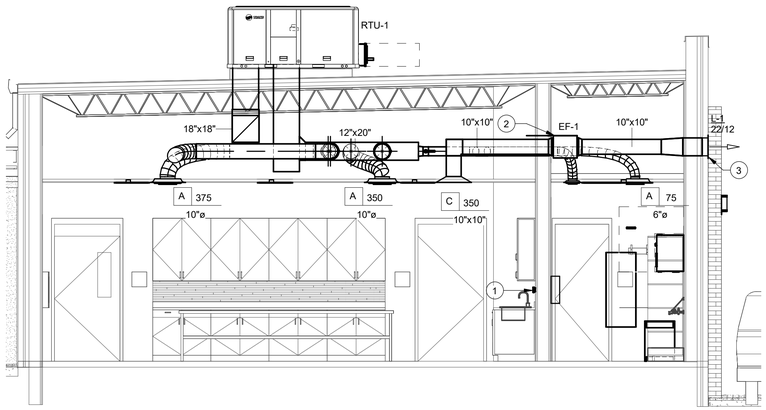
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1 MECHANICAL FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES MECHANICAL	
(1)	ALL RTU'S SUPPLY/RETURN OPENINGS SHALL BE EXTENDED DOWN W/ SAME SIZE OF DUCT AS UNIT SUPPLY/RETURN DUCT OPENING. TRANSITION TO DUCT SHOWN ON PLAN SHALL BE MADE WITH A TRANSITION DUCT PIECE.
(2)	ALL RETURN GRILLES SHALL BE PROVIDED W/ A SQUARE TO ROUND TRANSITION. FLEX DUCTWORK SHALL NOT RUN FOR MORE THAN 6 FEET AND SHALL BE BY FLEXMASTER. ALL RETURNS SHALL BE PROVIDED W/ A BALANCING DAMPER. REFERENCE DETAIL.
(3)	ALL DUCTWORK CROSSING WALLS SHALL BE PROVIDED W/ SLEEVES. REFERENCE DETAIL.

MECHANICAL KEYED NOTES	
1	HVAC CONTROLS THERMOSTAT MOUNTED @ 48" A.F.F. PROVIDE W/ KEYED PLASTIC COVER. THERMOSTAT TO HAVE DIGITAL TEMP DISPLAY. TO BE PROVIDED BY EXISTING CONTROLS CONTRACTOR.
2	SUSPEND VIA 3/8" ALL THREAD ROD AND PROVIDE WITH SPRING VIBRATION ISOLATORS IN RUBBER SPRING CUPS.
3	COORDINATE LOCATION OF LOUVERS TO NOT CONFLICT WITH CONTROL JOINTS AND DOWNSPOUTS.



2 MECHANICAL SECTION
1/4" = 1'-0"

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No.	Description	Date

KEY PLAN

MECHANICAL FLOOR PLAN

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

M-100

Scale: 1/4" = 1'-0"

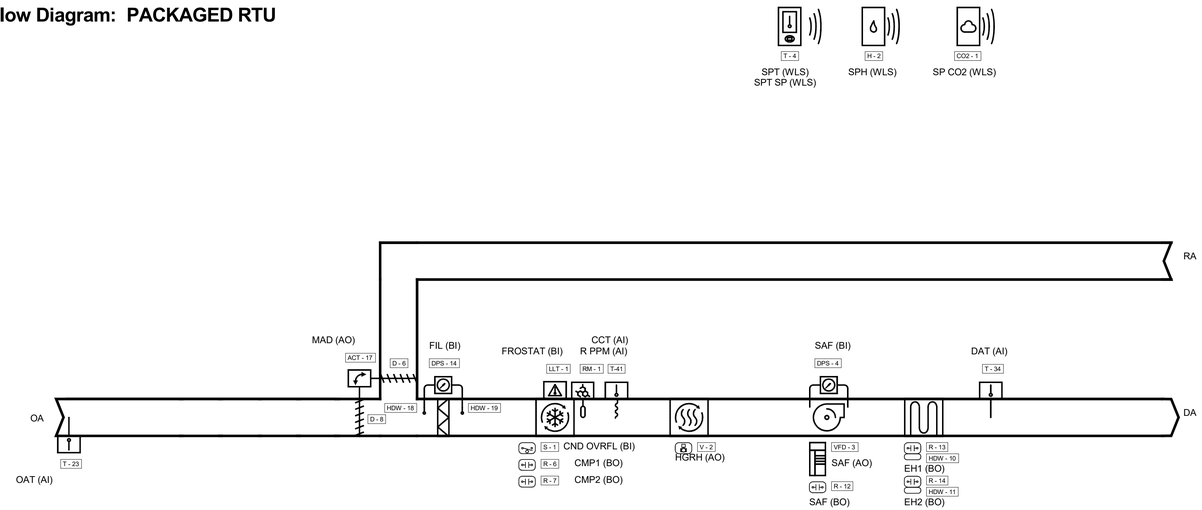
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Flow Diagram: PACKAGED RTU



Building Automation System Interface:

The Building Automation System (BAS) shall send the controller Occupied Bypass, Morning Warm-up/Pre-Cool, Occupied/Unoccupied and Heat/Cool modes. If a BAS is not present, or communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied:

During occupied periods, the supply fan shall run continuously and the mixed air dampers shall open to maintain minimum ventilation requirements. Upon a call for DX cooling, the unit controller shall enable the first fixed speed compressor. If the fixed speed compressor cannot satisfy the load conditions, the unit controller shall start the next fixed speed compressor in sequence to add to the total unit cooling load percentage. This process shall repeat until all of the fixed speed compressors have been started or until the active space temperature setpoint is satisfied. The electric heat shall be enabled and controlled to maintain the active space temperature setpoint. If the discharge air temperature sensor fails, the DX cooling and the electric heat shall control to maintain the active space temperature setpoint and an alarm shall annunciate at the BAS. If the space temperature sensor fails, the mechanical cooling shall be disabled, the mechanical heating shall be disabled, and an alarm shall annunciate at the BAS.

Unoccupied:

During the unoccupied periods, the supply fan shall be disabled, the outside air damper shall close, the mechanical cooling shall be disabled, the mechanical heating shall be disabled, to conserve energy.

When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall be commanded on, the outside air damper shall open if economizing is enabled and remain closed if economizing is disabled, and the mechanical cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F (adj.) minus the unoccupied differential of 4.0 deg. F (adj.) the supply fan the outside air damper shall close, and the mechanical cooling shall be disabled.

When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall be commanded on, and the mechanical heating shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall be commanded off, the mechanical heating shall be disabled.

Optimal Start:

The BAS shall monitor the scheduled occupied time, occupied space setpoints and space temperature to calculate when the optimal start occurs.

Optimal Stop:

The BAS shall monitor the scheduled unoccupied time, occupied setpoints and space temperature to calculate when the optimal stop occurs. When the optimal stop mode is active the unit controller shall maintain the space temperature to the space temperature offset setpoint. Outside air damper shall remain enabled to provide minimum ventilation.

Morning Warm-Up Mode:

During optimal start, if the space temperature is below the occupied heating setpoint a morning warm-up mode shall be activated. When morning warm-up is initiated the unit shall enable the heating and fan(s). The outside air damper shall remain closed. When the space temperature reaches the occupied heating setpoint (adj.), the unit shall transition to the occupied mode.

Pre-Cool Mode:

During optimal start, if the space temperature is above the occupied cooling setpoint, pre-cool mode shall be activated. When pre-cool is initiated the unit shall enable the fan and cooling or economizer. The outside air damper shall remain closed, unless economizing. When the space temperature reaches occupied cooling setpoint (adj.), the unit shall transition to the occupied mode.

Occupied Bypass:

The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

Heat/Cool Mode:

When the space temperature rises above the occupied cooling setpoint the mode shall transition to cooling. When the space temperature falls below the occupied heating setpoint the mode shall transition to heating. When the space temperature is above the occupied cooling setpoint or below the occupied heating setpoint the mode shall remain in its last state. If the space temperature sensor fails the mode shall remain in its last state and an alarm shall annunciate at the BAS. If the local and communicated setpoints fail the controller shall disable the supply fan and an alarm shall annunciate at the BAS.

Dehumidification:

The unit shall be in dehumidification mode if the space humidity is above the dehumidification setpoint. In the dehumidification mode, the supply air fan shall be enabled, the outside air damper shall be commanded to minimum position, and the unit controller shall energize mechanical cooling and the hot gas reheat coil shall modulate.

MULTI-CIRCUIT UNITS: During dehumidification mode the outside air temperature shall be monitored. If this temperature rises above the reheat capacity limit setpoint or falls below the reheat capacity limit setpoint, the unit shall stage down or stage up the compressors respectively to meet full or part load capacity requirements based on ambient temperature. Factory installed hot gas reheat shall allow application of dehumidification. Dehumidification shall be allowed only when the outside air temperature is above 40.0 deg. F and below 100.0 deg. F. The economizer outside air damper shall drive to minimum position during dehumidification.

MULTI-CIRCUIT UNITS: On a call for dehumidification, the hot gas reheat valve in circuit 1 shall energize and the compressor(s) shall enable. When the humidity control setpoint is satisfies, the valve shall be de-energized and the compressor(s) in circuit 1 shall be disabled. If there is a call for 1st stage cooling while in the dehumidification mode, no action shall take place. If there is a call for 2nd stage cooling, the hot gas reheat valve shall be de-energized, and the unit shall revert to the cooling mode. If 2nd stage cooling is satisfied and there is still a call for dehumidification, the hot gas reheat valve shall once again be energized.

Economizer:

ENABLE (Reference Dry Bulb): Outside air (OA) temperature shall be compared with a reference dry bulb setpoint. The economizer shall enable when the OA temperature is less than reference dry bulb setpoint. The economizer shall be disabled when OA temperature is greater than reference dry bulb setpoint + 2.0 deg. F.

OPERATION: The supply air sensor shall measure the dry bulb temperature of the air leaving the evaporator coil while economizing. When economizing is enabled and the unit is operating in the cooling mode, the economizer damper shall modulate between its minimum position and 100% to maintain the space temperature setpoint. Minimum position shall be calculated based on supply fan speed. If the supply air temperature starts to fall below supply air temperature setpoint, the outdoor damper shall be at minimum position. Compressors shall be delayed from operating until the economizer has opened to 100% for 5 minutes.

Demand Control Ventilation (DCV):

If the space CO2 level is greater than or equal to the Design Minimum CO2 Setpoint, the outdoor air damper shall open to the Design Minimum Outdoor Air Damper Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

If the space CO2 level is less than or equal to the DCV Minimum CO2 Setpoint, the outdoor air damper shall close to the DCV Minimum Outdoor Air Damper Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

If the space CO2 level is greater than the DCV Minimum CO2 Setpoint and less than the Design Minimum CO2 Setpoint, the outdoor air damper position shall be modulated proportionally to the space CO2 level relative to a target position between the DCV Minimum CO2 Setpoint and the Design Minimum CO2 Setpoint. If there is a call for economizer cooling, the damper may be opened further to satisfy the cooling request.

Supply Fan:

The unit controller shall vary the supply fan speed to optimize minimum fan speed in all cooling and heating modes.

Filter Status:

A differential pressure switch shall monitor the differential pressure across the filter(s) when the fan is running. If the switch closes during normal operation a dirty filter alarm shall annunciate at the BAS.

Condensate Overflow Shutdown:

The unit shall shut down in response to a signal from the condensate overflow sensor. The sensor shall be interlocked to the unit cooling controller for immediate shutdown of cooling.

Refrigerant Mitigation Mode:

The unit controller shall monitor the leak detection system, when a leak is detected, an alarm shall promptly alert the BAS via BACnet Change-of-Value (COV) and mitigation shall be activated.

In occupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

In unoccupied mode, the supply fan shall remain operational, and the compressor(s), electric heating, fuel-fired heating, electrostatic devices, and any other ignition device starters shall be disabled, and activate mechanical ventilation (if it's required by Section 7.6.4 of the ASRAE standard). for the duration of the mitigation process plus an additional 5 minutes.

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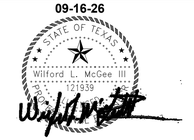
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No.	Description	Date

KEY PLAN

MECHANICAL CONTROLS

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

M-200

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DX PACKAGED UNIT SCHEDULE

TAG	RTU-1
TYPE	SNGL ZN VAV
DISCHARGE CONFIGURATION	DOWNFLOW
AREA SERVED	FINISHOUTS
FAN DATA	
SUPPLY CFM	1600
MIN. OUTSIDE AIR (CFM)	200
EXT. STATIC INCHES WC	0.5
MIN FAN POWER	3.0 HP - ECM
COOLING COIL	
ENTERING AIR DB/WB (°F)	77.9/63.8
LEAVING AIR DB/WB (°F)	53.9/53.8
MIN. TOTAL/SENSIBLE CAPACITY (MBH)	42.11/37.4
DESIGN RETURN AIR DB/WB (°F)	73/61
DESIGN OUTSIDE AIR DB/WB (°F)	111/79
DEHUMIDIFICATION SELECTION	
TYPE	MOD HGRH
REHEAT CAPACITY	40.02 MBH
MIN. MOISTURE REMOVAL RATE	2.1 GPH
HEATING SELECTION	
HEAT TYPE/AMBIENT DB (°F)	ELEC/27
HEAT INPUT/STAGES	9 KW/2
ENTERING/LEAVING DB (°F)	64/82
DETAILS AND ACCESSORIES	
MIN COOL/HEAT EFFICIENCY	16.4 SEER/-
COMPRESSOR QTY/COOL STAGE QTY	1/2
VOLTAGE/PHASE	208/3
MCA/MOCP	60/60
MOUNTING	14" TDI CURB
MANUFACTURER	TRANE
MODEL	THK048
NOMINAL UNIT SIZE TONNAGE	4.0 Tons
MAX WEIGHT	950 lbs
NOTES:	ALL

NOTES:
01. PROVIDE W/ FACTORY DISCONNECT & GFI DUPLEX 120V RECEPTACLE, FACTORY PWRD.
02. PROVIDE W/ MOTORIZED OA DAMPER, DIFF ENTH ECON, & BARR RELIEF DAMPER, PROVIDE WITH ECONOMIZER FAULT DETECTION & DIAGNOSTICS (FDD).
03. TRANE, LENNOX, CARRIER, APPROVED AS MANUFACTURERS.
04. PROVIDE IBC 2021 COMPLIANT CURB & ATTACHMENTS FROM UNIT TO CURB & CURB TO STRUCTURE. EQUIPMENT OR CURB MANUFACTURER IS RESPONSIBLE FOR PROVIDING ENGINEERED DETAILED ANALYSIS OF:
  A) ATTACHMENT OF EQUIPMENT TO CURB.
  B) CURB TO STRUCTURE.
  C) CURB & ATTACHMENT HARDWARE STRENGTH.
  REFER TO ARCHITECTURAL & STRUCTURAL DRAWINGS FOR ROOF SUBSTRATE DETAILS. PROVIDING ENGINEERED INSTALLATION DRAWINGS FOR ITEMS 'A' & 'B' LISTED ABOVE. BOTH, THE ENGINEERED ANALYSIS & THE ENGINEERED INSTALLATION DRAWINGS SHALL BE PERFORMED SPECIFICALLY FOR THIS BUILDING & PROJECT SITE & STAMPED & SEALED BY A TEXAS LICENSED ENGINEER. SUBMITTALS WILL NOT BE APPROVED UNTIL ALL DOCUMENTATION LISTED ABOVE IS PROVIDED ACCURATELY.
05. CLEARANCES & SA/RA COLLARS SHOWN ON PLANS ARE FOR SCHEDULED MAKE/MODEL. IF A SUBSTITUTION IS MADE, CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING SA/RA MANUFACTURER'S REQUIREMENTS.
06. UNIT TO HAVE SINGLE ZONE VAV CONTROL, CO2 DEMAND CONTROL VENTILATION & HGRH.
07. MECHANICAL CONTRACTOR TO PROVIDE ADDITIONAL BELTS & PULLEYS AS NECESSARY SUCH THAT TESTING ADJUSTING & BALANCING CAN BE PERFORMED TO THE DESIGN AIR VOLUMES SPECIFIED IN SCHEDULE ABOVE.
08. PROVIDE W/ FACTORY DUCT SMOKE DETECTOR. REFER TO MANUFACTURER'S INTALLATION INSTRUCTIONS FOR INSTRUCTIONS. TO BE MOUNTED & WIRED BY MECH CONTRACTOR.
09. PROVIDE A MERV 13 FINAL FILTER AFTER THE MERV 7 CONSTRUCTION FILTER IS REPLACED.
10. PROVIDE W/ BACnet INTERFACE CARD CAPABLE OF ACCESS TO ALL POINTS BY BAS.

AIR DEVICE SCHEDULE

TAG	A	B	C
SERVICE TYPE	SUPPLY	RETURN	EXHAUST
PHYSICAL PROPERTIES			
FACE SIZE	24"x24"	24"x24"	24"x24"
NECK SIZE	SEE PLANS	SEE PLANS	SEE PLANS
MOUNTING SURFACE	CEILING	CEILING	CEILING
DETAILS AND ACCESSORIES			
DAMPER TYPE	OPPOSED BLADE	OPPOSED BLADE	OPPOSED BLADE
ACCESSORY	INSUL BACKPAN	INSUL BACK PAN	INSUL BACK PAN
COLOR FINISH	WHITE	WHITE	WHITE
MATERIAL	STEEL	ALUMINUM	ALUMINUM
MANUFACTURER	PRICE	PRICE	PRICE
MODEL	SCD	80	80
NOTES			

NOTES:

FAN SCHEDULE

TAG	EF-1
SERVICE	CATERING
LOCATION	PLENUM
FAN PROPERTIES	
CFM	350
FAN RPM	1568
EXT SP (IN WG)	0.5
FAN MOTOR SIZE	1/10 HP - ECM
VOLTS/PHASE	120/1
SOUND LEVEL	7.5 SONES
MOUNTING	SUSPENDED
MANUFACTURER	GREENHECK
MODEL	SQ-90-VG
MAX WEIGHT	75 LBS
NOTES	ALL

NOTES:
01. PROVIDE WITH FACTORY INSTALLED DISCONNECT.
02. PROVIDE W/ FAN SPEED CONTROLLER
03. PROVIDE W/ BACKDRAFT DAMPER.
04. PROVIDE W/ WALL MOUNTED ROTARY TIMED DIAL SWITCH, 1-4 HOURS, LABELED "VENT FAN".
05. FAN TO BE SUSPENDED FROM STRUCTURE VIA SPRING VIBRATION ISOLATORS IN RUBBER SPRING CUPS.

LOUVER SCHEDULE

TAG	L-1
TYPE	EXHAUST
SERVICE	EF-1
DETAILS AND ACCESSORIES	
MAX CFM	350
LENGTH/HEIGHT (IN)	22/12
FREE AREA (SQ FT)	0.52
MAX VELOCITY (FPM)	669
MAX PRESSURE DROP (IN. H2O)	0.066
FINISH	1.2 mils 70% PVDF
INCLUDED SCREENS	BIRD
ACTUATION TYPE	NONE
BORDER STYLE	2" FLANGE
MAUNUFACTURER	GREENHECK
MODEL	ESD-202
NOTES	1,2

NOTES:
01. LOUVER OPENINGS TO BE SAW CUT.
02. SEAL OPENING WEATHER TIGHT.

OUTSIDE AIR CALCULATIONS

BASED ON IMC 2018, SECTION 403, TABLE 403.3.1.1

AREA	OCCUPANT QUANTITY	REQ'D OA CFM/OCC	TOTAL OCC OA REQ'D	SQFT	REQ'D OA CFM/SQFT	TOTAL SQFT OA REQ/D	RM TOTAL OA REQ'D	TOTAL OA SUPPLIED
01 CATERING STAGING	10	7.5	75	488	0.12	58.56	134	
02 STORAGE	0	5	0	180	0.06	10.8	11	
TOTAL RTU-1	**10**			**668**			**144**	**200**

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No.	Description	Date

KEY PLAN

MECHANICAL SCHEDULES

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

M-300

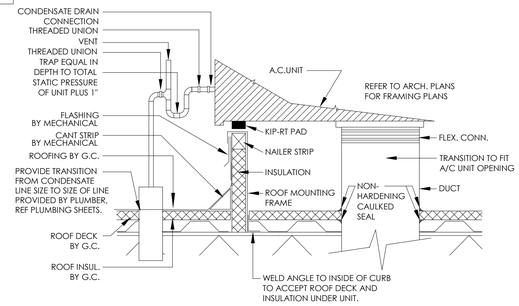
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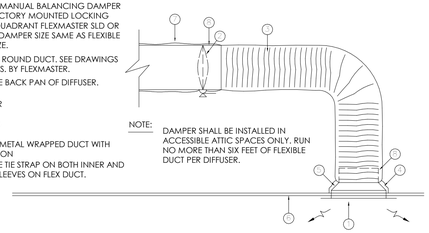
ROOF TOP UNIT DETAIL

NO SCALE

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02

1. CEILING DIFFUSER
2. ROUND MANUAL BALANCING DAMPER WITH FACTORY MOUNTED LOCKING HAND QUADRANT FLEXMASTER SLD OR EQUAL. DAMPER SIZE SAME AS FLEXIBLE DUCT SIZE.
3. FLEXIBLE ROUND DUCT. SEE DRAWINGS FOR SIZES. BY FLEXMASTER.
4. INSULATE BACK PAN OF DIFFUSER.
5. DIFFUSER
6. CEILING
7. ROUND METAL WRAPPED DUCT WITH INSULATION
8. PROVIDE TIE STRAP ON BOTH INNER AND OUTER SLEEVES ON FLEX DUCT.



NOTE: DAMPER SHALL BE INSTALLED IN ACCESSIBLE ATTIC SPACES ONLY. RUN NO MORE THAN SIX FEET OF FLEXIBLE DUCT PER DIFFUSER.

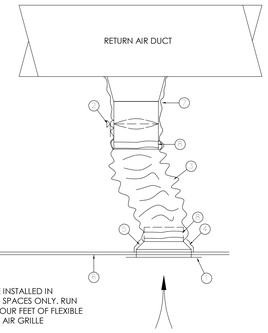
DIFFUSER RUN OUT DETAIL

NO SCALE

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03

1. RETURN AIR GRILLE
2. ROUND MANUAL BALANCING DAMPER WITH FACTORY MOUNTED LOCKING HAND QUADRANT FLEXMASTER SLD OR EQUAL. DAMPER SIZE SAME AS FLEXIBLE DUCT SIZE.
3. FLEXIBLE ROUND DUCT. FOUR FEET OR LESS. SEE DRAWINGS FOR SIZES. BY FLEXMASTER
4. INSULATE BACK PAN OF GRILLE.
5. FIELD FABRICATED SQUARE TO ROUND TRANSITION. FROM NECK OF GRILLE TO SIZE INDICATED ON PLAN.
6. CEILING (SEE PLANS FOR CEILING TYPE)
7. ROUND METAL WRAPPED DUCT WITH INSULATION
8. PROVIDE TIE STRAP ON BOTH INNER AND OUTER SLEEVES ON FLEX DUCT.



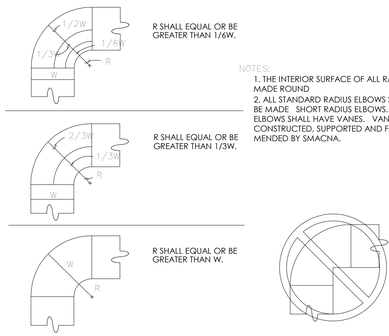
NOTE: DAMPER SHALL BE INSTALLED IN ACCESSIBLE ATTIC SPACES ONLY. RUN NO MORE THAN FOUR FEET OF FLEXIBLE DUCT PER RETURN AIR GRILLE

RETURN AIR GRILLE ATTACHMENT DETAIL

NO SCALE

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04



R SHALL EQUAL OR BE GREATER THAN 1/6W.

R SHALL EQUAL OR BE GREATER THAN 1/3W.

R SHALL EQUAL OR BE GREATER THAN W.

NOTES:
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

SQUARE 90° FITTING WILL NOT BE ALLOWED.

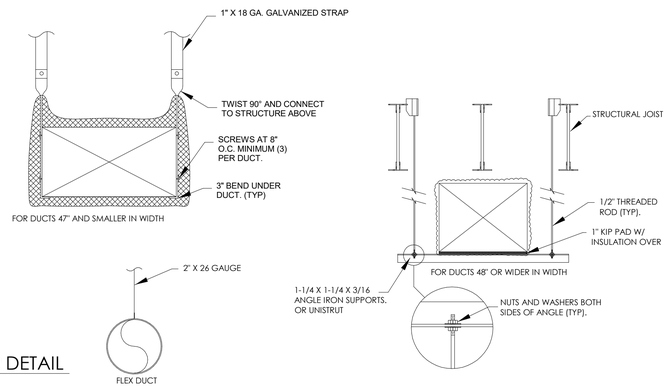
RADIUS DUCT ELBOW DETAIL

NO SCALE

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05

DUCT SUPPORT:
1. HANGER ATTACHMENTS TO STRUCTURE: SEE DIVISION 23 SECTION "HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT:. MINIMUM ROD OR BOLT SIZE S(9MM).
2. SUSPEND HORIZONTAL GALVANIZED RECTANGULAR DUCTWORK 47" (1220MM) OR LESS IN LARGEST DIMENSION FROM CONSTRUCTION BY 1 INCH BY 18 GAUGE (25MM X 1.3MM) GALVANIZED STRAP HANGERS SCREWED 8 INCHES (200MM) O.C. TO DUCTS. USE THREE (3) SCREWS MINIMUM PER STRAP. BEND STRAP UNDER DUCT AND SCREW INTO BOTTOM OF DUCT.
3. SUSPEND HORIZONTAL RECTANGULAR STAINLESS STEEL AND COATED DUCTWORK 48" (1220MM) OR LESS IN LARGEST DIMENSION FROM CONSTRUCTION BY 1 INCH BY 18 GAUGE (25MM BY 1.3MM) GALVANIZED STEEL STRAP HANGERS BOLTED TO MATING FLANGES AT MINIMUM OF THREE LOCATIONS. (TOP MIDDLE BOTTOM).
4. DUCTS OVER 48" (1220MM) IN LARGEST DIMENSION SUPPORT FROM UNISTRUT, SUPERSTRUT, OR EQUAL, TRAPEZE HANGERS SIZED FOR THE LOAD, PER SMACNA STANDARDS.
5. SUPPORT ROUND STEEL DUCTWORK FROM CONSTRUCTION BY 1 INCH BY 18 GUAGE (25MM BY 1.3MM) GALVANIZED STRAP HANGERS WITH INSIDE RADIUS OF LOOP HANGER EQUAL TO OUTSIDE RADIUS OF DUCT. FOR DUCTS UNDER 12" DIAMETER, PROVIDE SUPPORTS 10 FEET (3CM) O.C; 12 FEET (3.6M) AND OVER, 6 FEET (1.8M) O.C. PROVIDE NOT LESS THAN ONE HANGER PER BRANCH AND AT EACH CHANGE OF DIRECTION.
6. SUPPORT ROUND FLEXIBLE DUCTWORK FROM CONSTRUCTION BY 2 INCHES BY 26 GAUGE (50 MM BY 0.55MM) GALVANIZED STRAP HANGERS WITH INSIDE RADIUS OF LOOP HANGER EQUAL TO OUTSIDE RADIUS OF DUCT. LOCATE SUPPORTS TO AVOID KINKS AND SHARP BENDS.
7. DOUBLE FOLD STRAPS AT ATTACHMENTS TO STRUCTURE.
8. SPACE HANGERS NOT OVER 96 INCHES (2440MM) ON CENTER FOR DUCTS SMALLER THAN 18 INCHES (457MM) IN LARGEST DIMENSION; 60 INCHES (1524MM) O.C. FOR DUCTS 18 INCHES (457MM) AND OVER.

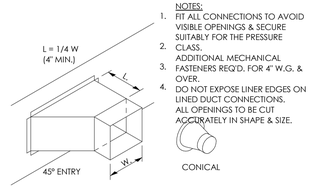


DUCT HANGER DETAIL

NO SCALE

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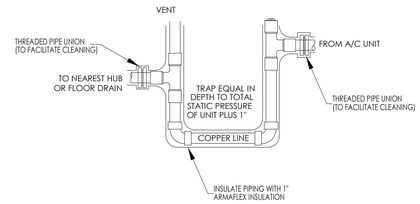
NOTES:
1. FIT ALL CONNECTIONS TO AVOID VISIBLE OPENINGS & SECURE SUITABLY FOR THE PRESSURE
2. CLASS.
3. ADDITIONAL MECHANICAL FASTENERS REQ'D. FOR 4" W.G. & OVER.
4. DO NOT EXPOSE LINER EDGES ON LINED DUCT CONNECTIONS. ALL OPENINGS TO BE CUT ACCURATELY IN SHAPE & SIZE.

BRANCH CONN. DETAIL

NO SCALE

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07

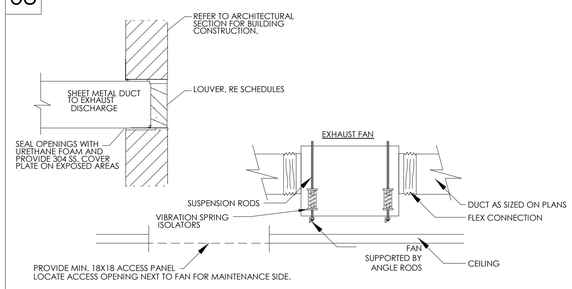


CONDENSATE TRAP DETAIL

NO SCALE

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08



SUSPENDED EXHAUST FAN DETAIL

NO SCALE

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09

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11

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No.	Description	Date

KEY PLAN

MECHANICAL DETAILS

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Checked by:	Checker
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Project Issue Date:	09-16-26

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ELECTRICAL LEGEND-LIGHTING

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	2'x4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X4' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
	2'x2' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	2'X2' LIGHT FIXTURE W/EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
	1'X4' LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	TRACK LIGHT WITH HEADS AS INDICATED
	INCANDESCENT, LED, FLUORESCENT, OR HID WALL WASHER LIGHT FIXTURE CEILING MTD, REFER TO LUMINAIRE SCHEDULE
	INCANDESCENT, LED, FLUORESCENT, OR HID FIXTURE CLG. OR WALL MTD, REFER TO LUMINAIRE SCHEDULE
	LED, FLUORESCENT, OR HID FIXTURE WITH EMERGENCY BATTERY PACK, CLG, OR WALL MTD, REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT, CEILING OR WALL MOUNTED - SHADING INDICATING SINGLE OR DOUBLE FACE: DIRECTIONAL ARROWS AS INDICATED REFER TO LUMINAIRE SCHEDULE
	EXIT LIGHT SAME AS ABOVE, EXCEPT WITH AN EMERGENCY UNIT AS A COMBO, REFER TO LUMINAIRE SCHEDULE
	CEILING FAN
	STRIP UTILITY LIGHT FIXTURE, REFER TO LUMINAIRE SCHEDULE
	STRIP UTILITY STRIP LIGHT WITH EMERGENCY BATTERY PACK, REFER TO LUMINAIRE SCHEDULE
$	WALL SWITCH SPST, 20A,120/277V
$2	DOUBLE POLE TOGGLE SWITCH, 20A/120/277V
$3	3-WAY WALL SWITCH, 20A,120/277V
$4	4-WAY WALL SWITCH, 20A,120/277V
$D	WALL DIMMER SWITCH
$P	WALL SWITCH SPST, 20A,120/277V - PILOT LIGHT SWITCH
$X	WALL SWITCH SPST, 20A,120/277V - KEYED SWITCH, X = 3 OR 4 WAY

ELECTRICAL LEGEND-SPECIAL SYSTEMS

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	
	WALL MOUNTED VOICE/DATA OUTLET, FURNISH AND INSTALL 1.25"C., WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
	WALL MOUNTED VOICE OUTLET, FURNISH AND INSTALL 1"C , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
	WALL MOUNTED DATA OUTLET, FURNISH AND INSTALL 1.25"C , WITH PULLSTRING AND INSULATED BUSHING, STUBBED ABOVE CEILING. +24" UNLESS OTHERWISE NOTE. BOX TO BE MINIMUM 2 1/8" DEEP.	
P	PUBLIC TELEPHONE OUTLET,: J-BOX & 1"C	
	TELEVISION OUTLET, CLG. OR WALL MOUNTED - STUB 1" C. ABOVE CEILING FROM OUTLET BOX	
	PUSHBUTTON WALL MOUNTED.	
AV	AUDIO VIDEO DROP, REFER TO DETAIL	
	INTERCOM - CALL SWITCH- JBOX WITH 3/4"C	
S	INTERCOM/PAGING LAY-IN SPEAKER	
	PA EXTERIOR SPEAKER	10'-6" AFF
	SECURITY DOOR CONTACT SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
	SECURITY MOTION DETECTOR SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
	SECURITY GLASS BREAK SENSOR - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX	
	SECURITY KEY PAD - STUB 3/4"C ABOVE CEILING FROM OUTLET BOX	
SEC	SECURITY PANEL JUNCTION BOX	54"
ACC	ACCESS CONTROL PANEL JUNCTION BOX - BY OTHERS	54"
	CARD READER BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	----
	MAGNETIC LOCK BOX - STUB 3/4"C ABOVE CEILING LEVEL FROM OUTLET BOX SYSTEM BY OTHERS	----
	INTRUSION EXTERIOR SPEAKER	10'-6" AFF
C	SINGLE SIDED CLOCK, J-BOX W/3/4"C	96" AFF MIN.
C	DOUBLE SIDED CLOCK, J-BOX W/3/4"C	96" AFF MIN.
	CAMERA J-BOX W/ 3/4" CONDUIT	----
	TELEPHONE BOARD- 3/4"x8' FIRE RATED	

ELECTRICAL LEGEND-FIRE ALARM

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
F	FIRE ALARM PULL STATION: STUB 3/4"C ABOVE CEILING FROM J-BOX
AV	FIRE ALARM AUDIBLE/VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX
V	FIRE ALARM VISUAL SIGNAL: STUB 3/4"C ABOVE CEILING FROM J-BOX
S	FIRE ALARM CEILING MOUNT SPEAKER STROBE, UL LISTED, : J-BOX WITH 3/4"C
VS	FIRE ALARM CEILING WALL MOUNT OUTDOOR SPEAKER STROBE, UL LISTED, : J-BOX WITH 3/4"C
SD	FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING FROM J-BOX
H	HEAT DETECTOR CEILING OR WALL MOUNTED: STUB 3/4"C ABOVE CEILING FROM J-BOX
SD	DUCT SMOKE DETECTOR: STUB 3/4"C ABOVE CEILING FROM J-BOX
SD	SMOKE DETECTOR WITH AN AUDIBLE BASE: STUB 3/4"C ABOVE CEILING FROM J-BOX
FACP	FIRE ALARM CONTROL PANEL, ADDRESSABLE, SURFACE MTD UNO, INCLUDE A FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11.
FACP-EVS	FIRE ALARM CONTROL PANEL WITH EMERGENCY VOICE SYSTEM, ADDRESSABLE, FLUSH MTD UNO, INCLUDE A FIRE DOCUMENT BOX EQUAL TO MFR. SPACE AGE ELECTRONICS #FDB-ACE-11.
EVES	FIRE ALARM EMERGENCY VOICE EVACUATION SYSTEM, FLUSH OR SURFACE.
FAAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL, FLUSH MOUNTED UNO
PAD-X	POWER SUPPLY, DEDICATED 110V
DH	DOOR HOLDER DEVICE: STUB 3/4"C ABOVE CEILING FROM J-BOX
TS	TAMPER SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX
FS	FLOW SWITCH: STUB 3/4"C ABOVE CEILING FROM J-BOX
F	FIRE ALARM OUTDOOR SPEAKER, WEATHER PROOF: STUB 3/4"C ABOVE CEILING FROM J-BOX

ELECTRICAL LEGEND-GENERAL

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION
	HEAVY DUTY DISCONNECT SWITCH FUSED
	HEAVY DUTY DISCONNECT SWITCH NONFUSED
	HEAVY DUTY COMBINATION DISCONNECT/MOTOR STARTER
	HEAVY DUTY MOTOR STARTER
	ENCLOSED BREAKER, RE: TO SCH. FOR MORE INFO.
R	ROTARY TYPE DISCONNECT SWITCH
M	120/277-208/480V,20AMP, MOTOR RATED SWITCH, NEMA-1(INTERIOR) ENCLOSURE. NEMA-3R(EXTERIOR) ENCLOSURE. VOLTAGE TO BE SELECTED PER EQUIPMENT CIRCUIT REQUIREMENTS.
	MOTOR
	PANELBOARD, CLEARANCE AS PER LATEST NEC
	SWITCH LEG
	ELECTRICAL CONDUIT
	UNDERGROUND ELECTRICAL CONDUIT
	COMMUNICATION CONDUIT AND WIRING
X, X, X X/X/X	MULTI-POLE DEVICE CIRCUIT NUMBERS THREE SINGLE POLE DEVICE CIRCUIT NUMBERS
A-1	CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATES OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
A-1	UNDERGROUND CONDUIT AND WIRE HOMERUN TO PANEL. SHORT HATCH INDICATES NEUTRAL CONDUCTOR, LONG HATCHES INDICATE PHASE CONDUCTORS, AND LONG HATCH WITH CIRCLE INDICATES ISOLATED OR INSULATED GROUND. ALPHANUMERIC DESCRIPTION INDICATES PANEL AND BREAKER.
#	DETAIL NUMBER
#	SHEET NUMBER
	THERMOSTAT WALL MOUNTED - STUB 1/2"C ABOVE CEILING FROM OUTLET BOX. COORDINATE EXACT LOCATION AND HEIGHT WITH MECHANICAL DIVISION.
J	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED MINIMUM OF 4" SQUARE
	PHOTO CELL(MFR.INTERMATIC #K4136M)
	LIGHTING CONTACTOR, NEMA-1, W/H.O.A. SWITCH
	TIME CLOCK (MFR.TORK#72022)
CP-1	CIRCULATING PUMP
	ELECTRICAL DEVICE AS SHOWN ON PLANS SURFACE MOUNT RACEWAY. SURFACE MOUNT RACEWAY SHALL BE WIREMOLD # V700 SERIES. PROVIDE ALL RELATED #V700 SERIES ACCESSORIES FOR AN OPERABLE SYSTEM.

ELECTRICAL ABBREVIATIONS:

ABBV:	DESCRIPTION	ABBV:	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	MFR. (S.C.)	MANUFACTURER SHARE CIRCUIT
BFC	BELOW FINISHED CEILING	QRCPT(S)	QUAD RECEPTACLE(S)
C	CONDUIT	RCPT(S)	DUPLEX RECEPTACLE(S)
CB	CIRCUIT BREAKER	CRCPT(S)	I.G. RECEPTACLE(S)
EC	EMPTY CONDUIT	QCRCPT(S)	QUAD I.G. RECEPTACLE(S)
EX	EXISTING	PNL	PANEL
F	FUSE	SO (S.O.)	SPACE ONLY
G	GROUND (EQUIPMENT)	SP	SPARE
GFI	GROUND FAULT INTERRUPTER	ST (S.T.)	SHUNT TRIP
MTD	MOUNT OR MOUNTED	SW	SWITCH
NF	NONFUSED	UF	UNDERFLOOR
NIC	NOT IN CONTRACT	UG	UNDERGROUND
H.D	HEAVY DUTY	UNO(U.N.O.)	UNLESS NOTED OTHERWISE
NL	NIGHT LIGHT	WG	WIRE GUARD
AC	ABOVE COUNTER	WP	WEATHERPROOF
HT.	HEIGHT	XFMR	TRANSFORMER
MTD.	MOUNTING	MB	MAIN BREAKER
FDR.	FEEDER	MLO	MAIN LUGS ONLY
CKT.	CIRCUIT	RMC	RIGID METAL CONDUIT
LTG.	LIGHTING	RNC	RIGID NONMETALLIC CONDUIT
LC	LIGHTING CONTACTOR	EMT	ELECTRICAL METALLIC TUBING CONDUIT
IG	ISOLATED GROUND	S/N	SOLID NEUTRAL
EA.	EACH	AC	ABOVE COUNTER
N1	NEMA-1	AHJ	AHUTHORITY HAVING JURISDICTION
N3R	NEMA-3R	T	TAMPER PROOF
N4X	NEMA-4X		
SS	STAINLESS STEEL		

NOTES:

1.) 48" AFF INDICATES TO TOP OF DEVICE;
15" AFF INDICATES TO BOTTOM OF DEVICE;
ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.
AC INDICATES 6" ABOVE COUNTER TO BOTTOM OF DEVICE.

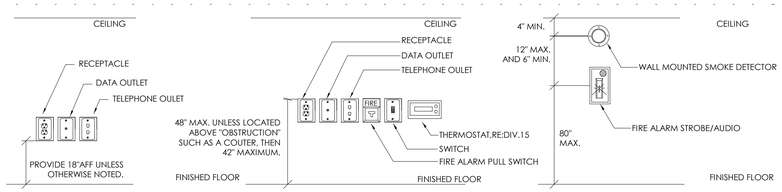
ELECTRICAL LEGEND - WIRING DEVICES

---ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

	SINGLE RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
T	DUPLEX RECEPTACLE TAMPER RESISTANT - 20A/125V/2P/3W/G NEMA 5-20R
CR	DUPLEX SENSOR CONTROLLED RECEPTACLE - 20A/125V/2P/3W/G NEMA 5-20R
H H	HOSPITAL GRADE DUPLEX RECEPTACLE/GFI - 20A/125V/2P/3W/G NEMA 5-20R
	DUPLEX RCPT, GFI - 20A/125V/2P/3W/G NEMA 5-20R
WP/ "IN-USE"	DUPLEX RCPT, WEATHER RESISTANT "WR", GFI INSTALLED IN A "IN-USE" WEATHER PROOF STEEL ENCLOSURE- 20A/125V/2P/3W/G NEMA 5-20R WP/"IN-USE" SHALL BE EQUAL TO MFR. CARLON, METALLIC SERIES SINGLE GANG, VERTICAL MOUNT #ME9U2VMG DOUBLE GANG, VERTICAL MOUNT #ME9U2VMG
	QUADRAPLEX RECEPTACLE
	ISOLATED GROUND QUADPLEX RECEPTACLE
	ISOLATED GROUND DUPLEX RECEPTACLE - 20A/125V NEMA 5-20R
	208V RECEPTACLE, VERIFY NEMA NO. WITH EQUIPMENT SUPPLIER
	SPECIAL PURPOSE RECEPTACLE (NEMA NO. AS INDICATED)
	J-BOX - AIR HAND DRYER: (RECESSED HAND DRYERS TO BE PROVIDED BY DIVISION 26, ELECTRICAL) 120V MODEL #SUMDRI AS MANUFACTURER BY WORLD DRYER. (COLOR WHITE) QUANTITY: REFER TO DRAWINGS (MIN. ONE PER LAV. COMPLETE W/ ELE. CONNECTIONS TYP.)
	4-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB4G30RCR-CFBS1R8CVRNKL(COVER)-(2)FBMPDUP-FBMP6KS -CFBHUB2(MULTISERVICE STEEL RECESSED FLOOR BOX -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6G	6-GANG FLOOR MOUNTED BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)/2-GANG FOR DATA - FLUSH MOUNTED UNO FLOOR BOX = MFR.-HUBBELL MODEL#CFB6G30RCR-CFBS1R8CVRNKL(COVER)-(3)FBMPDUP-FBMP6KS -CFBHB2(MULTISERVICE STEEL RECESSED FLOOR BOX-VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6P	6" FIRE RATED POKE-TRHOUGHS BOX, 2-DUPLEX RECEPTACLE(INCLUDE RECEPTACLE WITH COVER PLATE)-MFR.-HUBBELL MODEL#S1R6PTFIT-S1R6SPE-S1R6SPL-S1R6SPH(50/50 DEVICE PLATE COMBINATION)-S1R6CVRALU(COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER SAME BOX FOR DATA OUTLETS.
6JP	6" FIRE RATED POKE-TRHOUGHS BOX, FURNITURE FEED,- MFR.-HUBBELL MODEL#S1R6PTFFALU(ALUMINUM COVER) -VERIFY FLOOR FINISH PRIOR TO ORDER.

MOUNTING HEIGHT DETAIL

NOTE: VERIFY WITH ARCHITECTURAL FOR **ADA REQUIREMENTS.**



GENERAL ELECTRICAL NOTES

1. ALL SYMBOLS AND ABBREVIATIONS SHOWN ON THIS LEGEND MAY NOT APPEAR ON THIS SET OF DRAWINGS.
2. USE DIRECTIONAL ARROW ON EXIT SIGNS AS REQUIRED.
3. IEEE STANDARD C37.2-1991, ELECTRICAL POWER SYSTEM DEVICE FUNCTION NUMBERS.
4. CONTRACTOR SHALL NOT INSTALL MORE THAN THREE CURRENT CARRYING CONDUCTORS IN A COMMON RACEWAY. IF CONTRACTOR IS PLANNING ON GROUPING MULTIPLE CIRCUITS IN A SINGLE RACEWAY, THE CONTRCAITOR MUST SUBMIT ALL DERATING CALCULATIONS FOR THE PROPOSED INSTALLATION IN ACCORDANCE WITH NEC ARTICLE 310.15 (B) (2) FOR APPROVAL PRIOR TO INSTALLATION. NON APPROVED INSTALLATIONS WILL BE REMOVED AND REINSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE NEC AT NO ADDITIONAL COST TO THE OWNER.
5. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF THREE 90° BENDS (270 DEGREES TOTAL) BETWEEN PULL POINTS. WHERE THERE ARE MORE THAN THREE QUARTER BENDS, CONTRACTOR SHALL PROVIDE PULL BOXES AS SPECIFIED AND SIZED IN ACCORDANCE WITH NEC.
6. COMPLY WITH NEC REQUIREMENTS FOR ELECTRICAL INSTALLATIONS. ALL ELECTRICAL EQUIPMENT AND MATERIAL TO BE APPROVED, LISTED, LABELED, IDENTIFIED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY.
7. ALL RECEPTACLES, SWITCHES AND JUNCTION BOXES SERVED BY EMERGENCY BRANCH CIRCUITS SHALL BE "RED" IN COLOR. COVERPLATES SHALL BE LABELED IN ACCORDANCE WITH SPECIFICATIONS TO INDICATE PANELBOARD AND CIRCUIT NO. (IE: ET*LA-3).

LIGHTING CONTROL SENSORS LEGEND

SYMBOL	ACUITY MODEL NUMBER	CONDUIT	COMMENTS
OS1	NCM-PDT-10	3/4"C	PROVIDE POWER PACK POSITIONED AS DIRECTED BY MANUFACTURER. REFER TO PLANS FOR TYPE OF POWER PACK. REFER TO PLANS AND SCHEDULES FOR SWITCHING TYPES.
$1	nPODM-_-_-_WH	3/4"C	WALL MOUNT SWITCH WITH ON/OFF WITH STAINLESS STEEL PLATE
$2	WSXAMWO-PDT-WH	3/4"C	3-WAY APPLICAITONS NO DIMMING, AUTOMATIC ON RESTROOMS USE
P1	nPP16 D	3/4"C	POWER PACK, 120,240,277, VAC, 16AMPS/POLE, 0-10VDC DIMMING, PLENUM RATED, RELAY CONTACT PROTECTION, RJ-45 PORT

GENERAL NOTES:
A. CONTRACTOR SHALL REFER TO MANUFACTURERS INSTRUCTIONS AND WIRING DIAGRAMS PRIOR TO BID DATE.
B. CONTRACTOR SHALL INCLUDE ALL COST IN BID FOR AN OPERABLE LIGHTING SYSTEM.
NOTES:

1. All sensor locations are approximate, refer to manufacturers installation instructions prior to installation.
2. Ultrasonic ceiling mount sensors should be located a minimum of six feet from HVAC supply/return vents.
3. Contractor is responsible for: proper sensitivity & time delay settings (for non-adaptive products) recommended placement, and field verification of circuits with in respect to power placement.
4. Contractor is responsible for field verification of required number of power packs:
   - One power pack is required for each circuit to be controlled.
   - One power pack is required for every three sensors in the zone.
   - If multiple circuits are to be controlled by a sensor, an auxiliary relay can be used in conjunction with the power pack.
   - The maximum number of sensors that can be put on a power pack is to be reduced by one for each slave pack used.
5. Sensors mounted over the door must be placed one foot inside the threshold.
6. Contractor is responsible for ensuring that the sensor bill of materials complies with the sensor design and layout specifications.
7. Contractor is responsible for installing equipment in compliance with local code.
8. Refer to manufacturers wiring diagrams.
9. NOTE:
   Contractor shall include all cost for a manufacturer certified technician to provide a complete training session to owner representatives. Training shall include but not limited to the following: calibrate sensors settings, programming existing conditions and how to add new circuits, trouble shooting, overview of panel and any request from owner. Training may take days; contractor/manufacturer shall include all cost in bid. Contractor shall notify owner/Architect/Engineer on the day for the training. Technician shall calibrate all sensors to owners desire, include cost for technician to provide service after the job is complete.

LIGHTING CONTROLS ARE PROVIDED FOR THE LIGHTING SYSTEM THAT COMPLY WITH 2021 IECC SECTION C405 AS REQUIRED.

ELECTRICAL: LIGHTING FUNCTIONAL TESTING / COMMISSIONING PLAN:

CONTRACTOR SHALL PERFORM THE TASK BELOW TO COMMISSION THE LIGHTING CONTROL SYSTEM. CONTRACTOR SHALL SUBMIT A DOCUMENTATION DETAILING THE LIGHTING CONTROL SYSTEM, SETTING/CONDITION, ACTIONS PERFORMED AND FINAL SETTING CONDITION. SUBMIT DOCUMENTATION AT OR BEFORE SUBSTANTIAL COMPLETION TO FACILITATE OBTAINING THE CERTIFICATE OF OCCUPANCY.

A. ENSURE ALL LIGHTING FIXTURES FIXTURES HAVE LAMPS INSTALLED AND ARE FUNCTIONAL.
B. TEST ALL EXIT SIGNS, EMERGENCY LIGHTING FIXTURES, AND EMERGENCY BALLASTS FURNISHED INTEGRAL TO FIXTURES.
C. ENSURE ALL OCCUPANCY SENSORS HAVE BEEN INSTALLED AND ARE OPERATIONAL.
D. VERIFY ALL WALLBOX AND SCENE CONTROLLERS ARE INSTALLED AND OPERATIONAL.
E. TEST EACH INDIVIDUAL DEVICE FOR OCCUPANCY SENSOR TYPES OS1, OS2 AND TEST THE LIGHTING CONTROL RELAY PANEL SYSTEM.
F. TEST 10% OF ALL THE DEVICES FOR OCCUPANCY SENSOR TYPE: WSX-PDT-SA.
G. VERIFY THE FOLLOWING:
1. ALL SENSORS ARE LOCATED AND AIMED PER THE MANUFACTURER'S RECOMMENDATIONS.
2. STATUS INDICATORS ON DEVICES ARE OPERATIONAL AND CORRECT.
3. DEVICES CONTROL LIGHTING FIXTURES AS INDICATED ON DRAWINGS.
4. TIME DELAYS HAVE BEEN SET AS PER CODE AND PER OWNERS DIRECTIONS.
5. MOVEMENT IN ADJACENT AREAS AND/ CYCLING OF HVAC SYSTEMS DOES NOT FALSE TRIGGER SENSORS.
6. PHOTOCELL LOCATION AND AIMED PER MANUFACTURERS RECOMMENDATIONS.
7. PROGRAM INTERIOR RELAYS WITH A TIME FUNCTION ACCEPTABLE TO OWNER.
8. PROGRAM INTERIOR OVERRIDE SWITCH WITH A TIME FUNCTIONAL ACCEPTABLE BY OWNER.

APPLICABLE BUILDING CODE

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL PLUMBING ELECTRICAL CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION
2021 INTERNATIONAL FIRE CODE
2012 TEXAS ACCESSIBILITY STANDARDS
2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
2021 INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE

1 ELECTRICAL LEGEND
1/8" = 1'-0"

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09-16-26

LEONARDO AUINO 10927 STATE OF TEXAS REGISTERED ENGINEER

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No.	Description	Date

KEY PLAN

ELECTRICAL LEGEND

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

E-000

Scale: 1/8" = 1'-0"

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Project number: W.2026.04.10.005

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GENERAL DEMOLITION NOTES: (TO ALL SHEETS)

A. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE ARCHITECTURAL DRAWINGS AND BY THE REQUIREMENTS OF THIS SECTION. A VISIT TO THE SITE WILL BE REQUIRED TO PROPERLY BID THE DEMOLITION WORK.

B. PROVIDE ALL DEMOLITION WORK REQUIRED FOR THE REMOVAL AND/OR RELOCATION OF ELECTRICAL EQUIPMENT AND ASSOCIATED CONDUCTORS, CONDUIT, BOXES, ETC. TO PROVIDE A COMPLETE AND OPERABLE SYSTEM UPON COMPLETION OF THE PROJECT.

C. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCHITECTURAL DOCUMENTS IN ADDITION TO THE DIVISION 23 AND 26 DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.

D. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO THEIR SOURCE.

E. WHERE DEVICES OR EQUIPMENT ARE INDICATED OR REQUIRED TO BE RELOCATED, THE ASSOCIATED BOXES, CONDUIT, AND CONDUCTORS SHALL BE REMOVED BACK TO A CONCEALED JUNCTION BOX AND NEW PRODUCTS SHALL BE USED TO EXTEND THE SERVICE TO THE NEW LOCATION.

F. WHERE CONDUITS RUN ABOVE INACCESSIBLE CEILINGS OR IN WALLS WHICH ARE NOT PART OF DEMOLITION ARE TO REMAIN UNDISTURBED, CONDUCTORS SHALL BE REMOVED AND THE CONDUITS CAPPED AND ABANDONED.

G. WHERE THE REMOVAL OF DEVICES OR EQUIPMENT RENDERS EQUIPMENT DOWNSTREAM INOPERABLE, SERVICE SHALL BE EXTENDED TO THE DOWNSTREAM DEVICE OR EQUIPMENT SO THAT THE DEVICE OR EQUIPMENT IS LEFT IN OPERATING CONDITIION.

H. COORDINATE DEMOLITION OF DIVISION 26 SYSTEMS AS REQUIRED WITH ALL OTHER TRADES.

I. ALL EXISTING ELECTRICAL EQUIPMENT, CONDUIT AND WIRING REMOVED DURING CONSTRUCTION NO LONGER REQUIRED AS PART OF AN ACTIVE SYSTEM AND NOT TO BE REUSED SHALL BE REMOVED FROM THE JOB SITE AND PROPERLY RETURNED TO THE OWNER, IF DESIRED BY OWNER.

J. WHERE EXISTING EQUIPMENT IS TO BE RELOCATED, EXTREME CARE SHALL BE TAKEN TO PREVENT DAMAGE DURING THE REMOVAL AND REINSTALLATION. WHERE DAMAGE OCCURS, THE EQUIPMENT SHALL BE REPLACED OR REPAIRED TO THE SATISFACTION AND APPROVAL OF THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

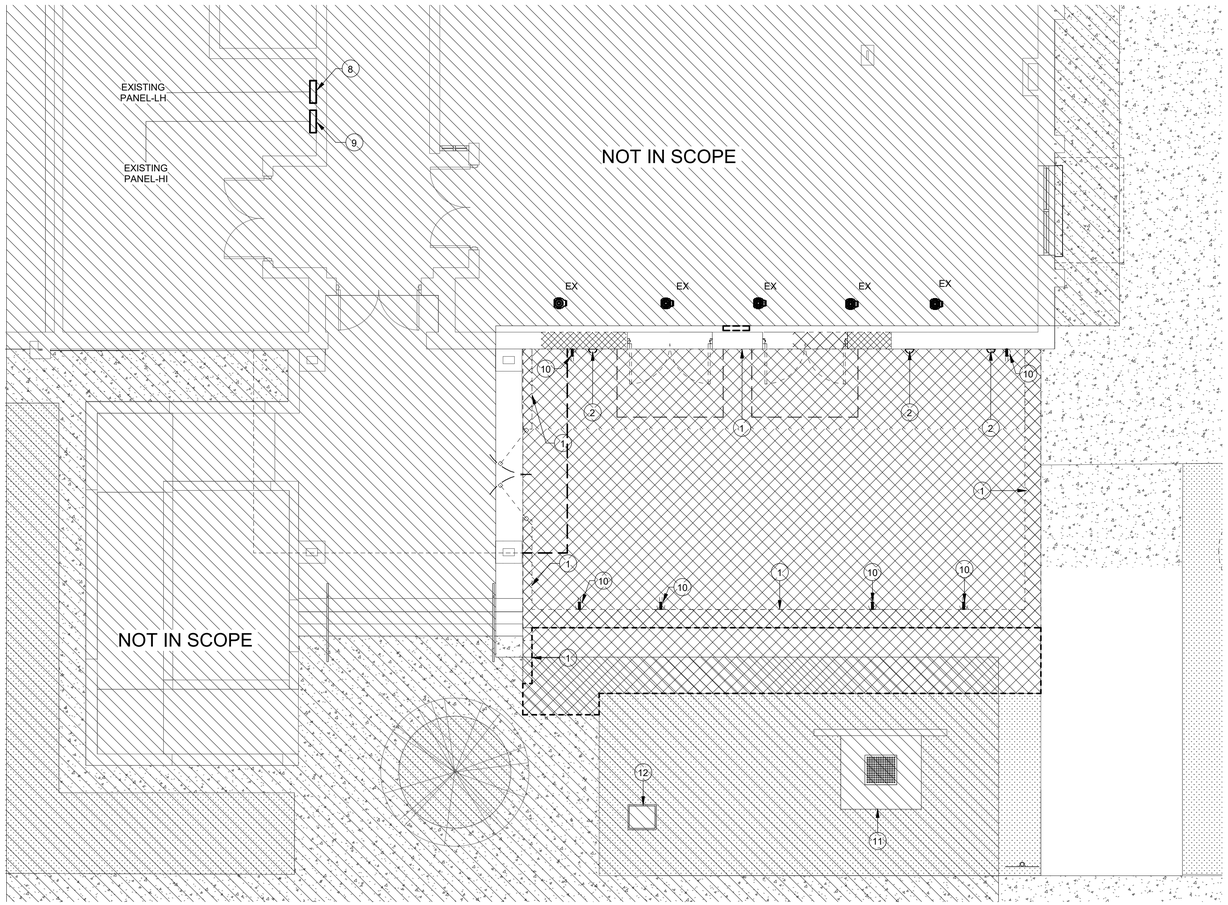
K. EXISTING DEVICES AND/OR EQUIPMENT TO BE REUSED SHALL BE CLEANED AND REPAIRED AT THE DISCRETION OF THE ARCHITECT WHERE APPLICABLE.

L. ALL DEVICES WITH AN "EX" SYMBOL ARE EXISTING TO REMAIN.

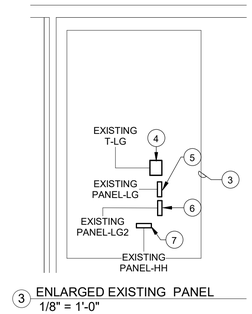
M. ALL DEVICES ATTACHED TO WALLS OR CEILINGS SHALL BE REMOVED PER DEMOLITION NOTE A - L WHETHER SHOWN ON DRAWINGS OR NOT.

ELECTRICAL KEYNOTES

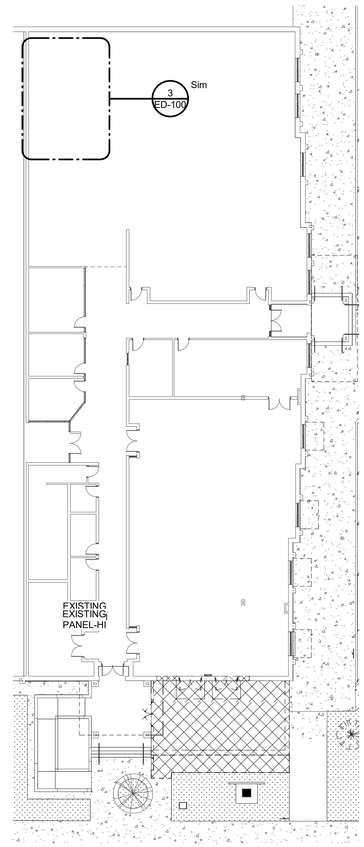
1	EXISTING WALL TO BE DEMOLISHED. REMOVE ALL ELECTRICAL CONDUIT, WIRING, RECEPTACLES, WALL PLATES, DATA OUTLETS, FIRE ALARM OR ANY ELECTRICAL DEVICE ON WALL.
2	EXISTING LIGHTS TO BE REMOVED. REFER TO REMODEL PLAN.
3	FIELD VERIFY EXACT LOCATION PRIOR TO ANY WORK.
4	EXISTING 112.5KVA, T-LG.
5	EXISTING 400A, 208/120V, 3-PHASE, 4W PANEL-LG, MFR. SIEMENS TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR TO ANY WORK.
6	EXISTING 400A, 208/120V, 3-PHASE, 4W PANEL-LG2, MFR. SIEMENS TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR TO ANY WORK.
7	EXISTING 250A, 480/277V, 3-PHASE, 4W PANEL-HH, MFR. SIEMENS TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR TO ANY WORK.
8	EXISTING 125A, 208/120V, 3-PHASE, 4W PANEL-LH, MFR. SIEMENS TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR TO ANY WORK.
9	EXISTING 200A, 480/277V, 3-PHASE, 4W PANEL-HI, MFR. SIEMENS TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND EXACT LOCATION PRIOR TO ANY WORK.
10	EXISTING RECEPTACLE TO BE REMOVED.
11	EXISTING DRAIN TO REMAIN.
12	EXISTING ELECTRICAL BOX MANHOLE TO REMAIN.



1 ELECTRICAL DEMOLITION FLOOR PLAN
3/16" = 1'-0"



3 ENLARGED EXISTING PANEL
1/8" = 1'-0"



2 OVERALL PARTIAL FLOOR PLAN
1" = 20'-0"

LEGEND : DEMOLITION

LIGHT FIXTURES, LIGHTING DEVICES AND CONDUITS SHALL BE REMOVED.(TRACK LIGHTS SHALL RETURN TO OWNER IF DESIRE BY OWNER)

EXISTING WIRING DEVICES AND CONDUITS SHALL BE REMOVED.

EXISTING WIRING DEVICES TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND REFER TO ARCHITECTURAL DOCUMENTS.

EXISTING DATA OUTLET TO REMAIN. FIELD VERIFY EXISTING CONDITIONS AND REFER TO ARCHITECTURAL DOCUMENTS.

EXISTING WIRING DEVICES IN EXISTING LOCATION TO BE REPLACED. REFER TO REMODEL PLANS.

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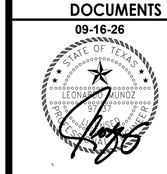
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No.	Description	Date

KEY PLAN

ELECTRICAL DEMOLITION FLOOR PLAN

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

ED-100

Scale: As indicated

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GENERAL NOTES- LIGHTING

A. ALL EXIT FIXTURES/EMERGENCY BATTERY PACK LIGHT FIXTURE SHALL BE CONNECTED TO UNSWITCHED OR NON-DIMMING HOT LEG OF SAME VOLTAGE/PHASE OF LOCAL LIGHTING CIRCUIT IN SPACE.
A.ALL EXIT FIXTURES/EMERGENCY BATTERY PACK LIGHT FIXTURE SHALL BE CONNECTED TO UNSWITCHED OR NON-DIMMING HOT LEG OF SAME VOLTAGE/PHASE OF LOCAL LIGHTING CIRCUIT IN SPACE.

B. VERIFY CEILING TYPES AND COORDINATE WITH FIXTURE TYPE LIGHT FIXTURE SHALL BE COMPATIBLE WITH CEILING TYPE AS INDICATED ON THE ARCHITECTURAL DOCUMENTS. NOTIFY ENGINEER IF DISCREPANCIES EXIST PRIOR TO ORDERING FIXTURES.

C. COORDINATE EXACT ROUTING OF ALL CONDUIT ABOVE CEILING IN BUILDING. TYPICAL FOR ALL BUILDING EXTERIOR LIGHTING.

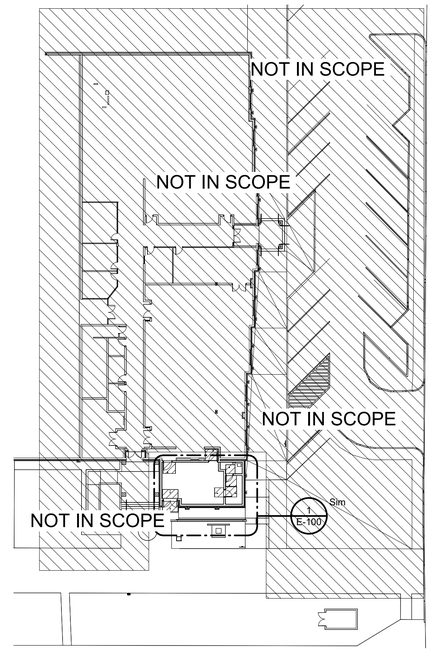
D. COORDINATE LOCATION OF LIGHTS WITH DIFFUSERS AND GRILLES.

E. SWITCH LEGS ARE NOT SHOWN WHERE SWITCHING SCHEME IS OBVIOUS.

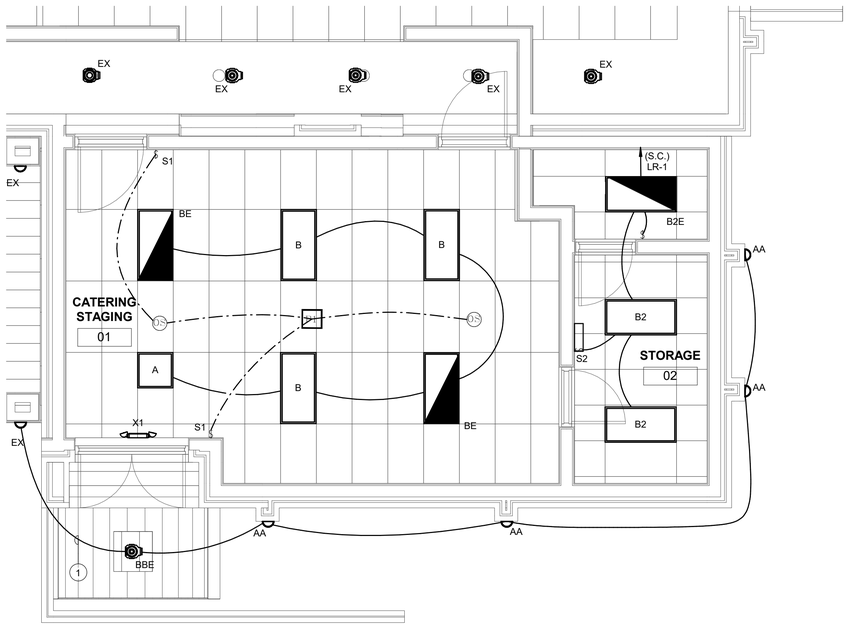
F. ALL EXIT FIXTURES TYPE-"X1 & X2", EMERGENCY LIGHT FIXTURE TYPE-"E" AND ALL EMERGENCY BALLAST SHALL BE ON CIRCUIT "DPEL-38". FIXTURE TYPE LABEL WITH AN "_E" ARE LIGHT FIXTURES WITH EMERGENCY BALLAST. REFER TO LIGHT FIXTURE SCHEDULE.

ELECTRICAL KEYNOTES

1	TIE INTO EXISTING SPACE LIGHTING AND CONTROL METHOD WITH 2#12, 1#12G, 1/2"C.



3 ELECTRICAL SITE PLAN
1/32" = 1'-0"



1 ELECTRICAL LIGHTING PLAN - FIRST FLOOR
1/4" = 1'-0"



2 ELECTRICAL LIGHTING FLOOR PLAN - PHOTOMETRICS
1/4" = 1'-0"

Schedule								
Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
	A	1	Lithonia Lighting	2GTL2 40L LP840	GTL 2X2 4000 NOMINAL LUMENS, 4/12 GRID, 40SW.	1	5110	0.90	41.90
	B	5	Lithonia Lighting	2GTL4 60L LP840	GTL 2X4 6000 NOMINAL LUMENS, 4/12 GRID, 60SW.	1	6604	0.90	48.82
	B2	3	Lithonia Lighting	2GTL4 40L LP840	GTL 2X4, 4000 NOMINAL LUMENS, 4/12 GRID, 40SW.	1	4166	0.90	29.83
	BB	1	Lithonia Lighting	LDNE-6032-L10AR LSS	DN LDN, 4000K, 2000LM, CLEAR, SEMI-SPECULAR REFLECTOR, CRI80	1	2009	0.90	22.52

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CATERING 01	+	56.1 fc	76.1 fc	28.2 fc	2.7:1	2.0:1
STORAGE 02	+	33.6 fc	38.1 fc	28.7 fc	1.3:1	1.2:1
CANOPY	+	19.7 fc	26.9 fc	9.6 fc	2.8:1	2.1:1
ELECTRICAL RM	+	23.2 fc	25.2 fc	17.2 fc	1.5:1	1.3:1

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No.	Description	Date

KEY PLAN

ELECTRICAL LIGHTING FLOOR PLAN

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

E-100

Scale: As indicated

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Project number: W.2026.04.10.005

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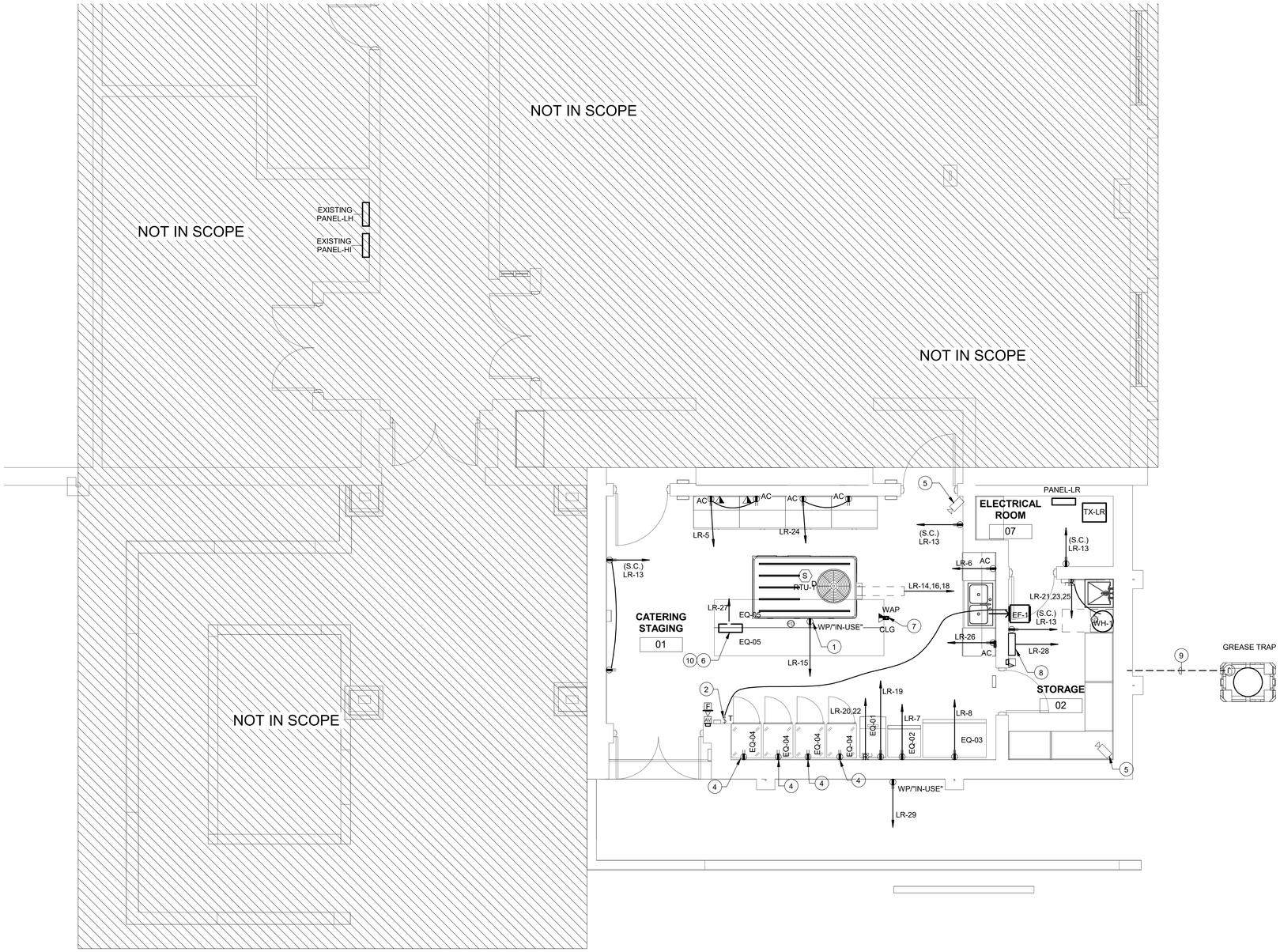
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GENERAL NOTES- POWER

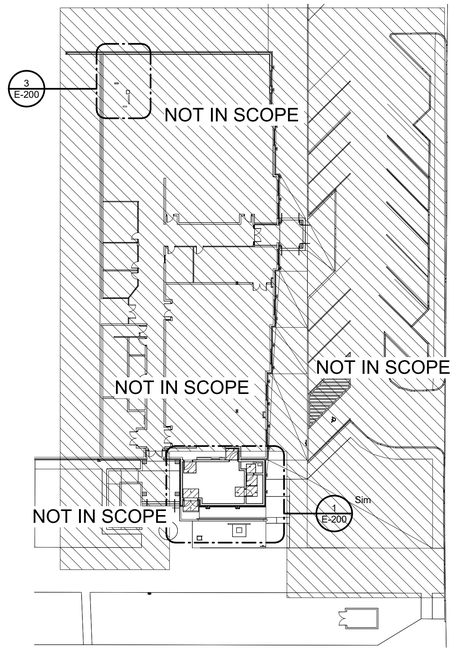
A. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL POWER SOURCE WIRING IN ACCORDANCE WITH ARCHITECTURAL MILLWORK.
B. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTION TO H.V.A.C EQUIPMENT, PLUMBING EQUIPMENT, REFER TO PANEL SCHEDULE FOR WIRE SIZE.
C. ELECTRICAL CONTRACTOR SHALL PROVIDE STARTERS, RELAYS, CONTACTORS AND THE REQUIRED ELECTRICAL ACCESSORIES FOR MECHANICAL SYSTEM AS REQUIRED.
D. COORDINATE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT IN ACCORDANCE W/MECHANICAL DRAWINGS TO MEET ELECTRICAL AND MECHANICAL REQUIRED CLEARANCE BY THE LATEST CODE.
E. COORDINATE EXACT LOCATION OF ISOLATED OUTLETS FOR COMPUTERS WITH OWNER.
F. ELECTRICAL CONTRACTOR SHALL PROVIDE J-BOX AND CONDUIT FOR H.V.A.C. CONTROLS AND THERMOSTATS. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR.
G. NEMA RATED OUTLETS, REFER TO BREAKER SIZE AND COORDINATE WITH EQUIPMENT REQUIREMENTS PRIOR TO BID.
H. NEW FIRE ALARM DEVICES SHALL BE OF THE SAME OF THE EXISTING FIRE ALARM SYSTEM SIEMENS, FIELD VERIFY EXISTING FIRE ALARM SYSTEM. NEW DEVICES SHALL TIE INTO EXISTING FIRE ALARM SYSTEM. INCLUDE IN BID ALL COST FOR A COMPLETE OPERABLE CODE COMPLIANT FIRE ALARM SYSTEM.

ELECTRICAL KEYNOTES

1	GFI DUPLEX RECEPTACLE LOCATED ON ROOF. PROVIDE ROOF PITCH PAN FOR CONDUIT. PROVIDE WP/"IN-USE" ENCLOSURE FOR RECEPTACLE.
2	PROVIDE A 120V, 20 AMP, SPRINGWOUND AUTO-OFF WALL TIMER SWITCH, EQUAL TO MFR. INTERMATIC #FF60MHC.
3	FIELD VERIFY EXACT LOCATION PRIOR TO ANY WORK.
4	NEMA 5-20P RECEPTACLR FOR FOOD WARMER.
5	COORDINATE CAMERA J-BOX MOUNTING HEIGHT WITH OWNER PRIOR TO ANY WORK.
6	CORD REEL EQUAL TO HUBBELL #HBL145123GF220M1,REFER TO DETAIL.PROVIDE ADDITIONAL STRUCTURAL SUPPORT TO PROPER INSTALLATION.
7	PROVIDE A DATA DROP ABOVE CEILING FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH IT/OWNER.
8	GREASE TRAP SERVICE ALERT PANEL. COORDINATE EXACT LOCATION PRIOR TO ANY WORK.
9	PROVIDE 1"C WITH PULLSTRING FOR GREASE TRAP SENSOR AND ROUTE TO GREASE TRAP ALERT PANEL. COORDINATE EXACT LOCATION OF STUB UPS PRIOR TO ANY WORK.
10	GENERAL CONTRACTOR TO PROVIDE SUPPORTS FOR EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. SUPPORTS ARE TO BE BRACED TO STRUCTURAL ELEMENTS ABOVE



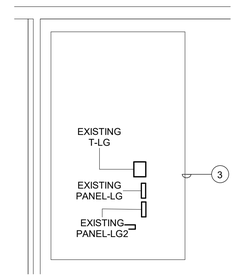
1 ELECTRICAL POWER FLOOR PLAN
1/4" = 1'-0"



2 ELECTRICAL SITE PLAN
1/32" = 1'-0"

SPECIALTY EQUIPMENT SCHEDULE

Type Mark	Description
EQ-01	SCOTSMAN PRODIGY ELITE MODULAR CUBE ICE MACHINE 300LB - MODEL MC0322
EQ-02	FORNO Alta Qualita 28" Right Swing Refrigerator/Freezer Stainless Steel 13.8 cu.ft - Model FFFFD1933-28RS
EQ-03	Motak Two-section 54" Reach-in Refrigerator Model #MSD-2DR-BAL-X
EQ-04	Vulcan 18 pan non-insulated Cabinet - Model VHFA18
EQ-05	Advance Tabco 24"W X 144"L X 36"H Stainless Steel Table with Undershelf - Model MS-2412
F.E.C	Fire Extinguisher Cabinet



3 ENLARGED EXISTING PANEL
1/8" = 1'-0"

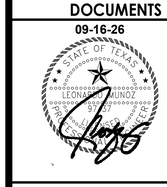
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LC Executive Conference Center - Catering Staging Addition

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100% CONSTRUCTION DOCUMENTS

09-16-26



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No.	Description	Date
1		

KEY PLAN

ELECTRICAL POWER FLOOR PLAN

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Project Issue Date:	09-16-26

E-200

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LUMINAIRE SCHEDULE

MARK	VOLTAGE	LAMP	MOUNTING	DESCRIPTION	MODEL NO.	QTY.
A	MVOLT	LED 4800 LM 4000K 42W	LAY-IN	2'X2' LED TROFFER FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA 2GTL2 48L LP840	1
B	MVOLT	LED 6000 LM 4000K 49W	LAY-IN	2'X4' LED TROFFER FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA 2GTL4 60L LP840	3
BE	SAME AS TYPE 'B' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK					2
B2	MVOLT	LED 4000 LM 4000K 30W	LAY-IN	2'X4' LED TROFFER FIXTURE, UL LISTED, LENS, HIGH EFFICIENCY 0-10V DRIVER	LITHONIA 2GTL4 40L LP840	2
B2E	SAME AS TYPE 'B2' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK					1
X1	MVOLT	LED	SURFACE	LED THERMOPLASTIC EXIT/EMERGENCY UNIT WITH SELF-DIAGNOSTICS	LITHONIA LHQM LED _ R SD	1
AA	MVOLT	LED 750 LM 3500K 21W	SURFACE	LED WALL PACK FIXTURE, WET LOCATION RATED. COLOR FINISH SELECTED BY ARCHITECT	VISA LIGHTING OW122-L35K(H)-MVOLT-XX-XX-XX	4
BB	MVOLT	LED 2000 LM 4000K 23W	RECESSED	LED SURFACE MOUNT CANOPY FIXTURE, LENSED, WET LOCATION RATED	LITHONIA LDN6 40/20 LO6AR LSS	0
BBE	SAME AS TYPE 'BB' EXCEPT WITH 1400 LUMEN EMERGENCY BATTERY PACK					1

NOTE:
1.) EQUAL MANUFACTURER SHALL BE ACCEPTABLE WITH EQUAL PERFORMANCE OF SPECIFIED EQUIPMENT AND APPROVED BY ENGINEER.
2.) SUBMIT EQUAL MANUFACTURERS TO ENGINEER 10 DAYS PRIOR TO BID DATE.
3.) SUBMIT LIGHT FIXTURES CUTSHEETS TO OWNER FOR APPROVAL PRIOR TO ORDER.
4.) CONTRACTOR SHALL VERIFY THAT ANY IRRIGATION SPRINKLER HEAD IS AWAY FROM ANY LIGHT POLE A MINIMUM OF 75' TO AVOID CONSISTENT WATER TO LIGHT POLE. COORDINATE WITH IRRIGATION CONTRACTOR PRIOR TO ANY WORK.
5.) CONTRACTOR SHALL VERIFY THAT ANY LIGHT POLES ON COMMON AREAS AND SIDE WALKS, THAT THE LOCATION OF THE POLE TO MEET THE ADA REQUIREMENTS.
6.) CONTRACTOR SHALL FIELD VERIFY FOR EXISTING/NEW UNDERGROUND UTILITIES PRIOR TO ANY WORK.

Branch Panel: PANEL-LR

Location: ELECTRICAL ROOM 07 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1 | **Volts:** 120/208 Wye | **Phases:** 3 | **Wires:** 4 | **A.I.C. Rating:** 18 | **Mains Type:** | **Mains Rating:** 200 A | **MCB Rating:** 150 A

CKT	Circuit Description	Trip	Poles	Comments	A		B		C		Comments	Poles	Trip	Circuit Description	CKT
LR-1	LIGHTING	20 A	1	2#12, 1#12G,1/2"C	377 VA	--						1	--	Space	LR-2
LR-3	Space	--	1				--	--				1	--	Space	LR-4
LR-5	Receptacle	20 A	1	2#12, 1#12G,1/2"C					400 VA	200 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-6
LR-7	REF	20 A	1	2#12, 1#12G,1/2"C	1200 VA	1200 VA					2#12, 1#12G,1/2"C	1	20 A	RE	LR-8
LR-9	WARMER	20 A	1	2#12, 1#12G,1/2"C			2000 VA	2000 VA			2#12, 1#12G,1/2"C	1	20 A	WARMER	LR-...
LR-...	WARMER	20 A	1	2#12, 1#12G,1/2"C					2000 VA	2000 VA	2#12, 1#12G,1/2"C	1	20 A	WARMER	LR-...
LR-...	Receptacle	20 A	1	2#12, 1#12G,1/2"C	900 VA	7200 VA					4#6, 1#10G,1"C	3	60 A	RTU-1	LR-...
LR-...	ROOF RCPTS	20 A	1	2#12, 1#12G,1/2"C			1500 VA	7200 VA			--	--	--	--	LR-...
LR-...	EF-1	20 A	1	2#12, 1#12G,1/2"C					700 VA	7200 VA	--	--	--	--	LR-...
LR-...	1 RCPTS	20 A	1	2#12, 1#12G,1/2"C	1200 VA	572 VA					3#10, 1#10G,3/4"C	2	20 A	ICE MAKER	LR-...
LR-...	WH-1	25 A	3	4#10, 1#10G,3/4"C			2000 VA	572 VA			--	--	--	--	LR-...
LR-...	--	--	--	--					2000 VA	400 VA	2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-...
LR-...	--	--	--	--	2000 VA	200 VA					2#12, 1#12G,1/2"C	1	20 A	Receptacle	LR-...
LR-...	Receptacle	20 A	1	2#12, 1#12G,1/2"C			1200 VA	1200 VA			2#12, 1#12G,1/2"C	1	20 A	GREASE TRAP CONTROL PANEL	LR-...
LR-...	Receptacle	20 A	1	2#12, 1#12G,1/2"C					1500 VA	--		1	--	Space	LR-...
LR-...	Space	--	1		--	--						1	--	Space	LR-...
LR-...	Space	--	1				--	--				1	--	Space	LR-...
LR-...	Space	--	1						--	--		1	--	Space	LR-...
LR-...	Spare	20 A	1		0 VA	0 VA						1	20 A	Spare	LR-...
LR-...	Spare	20 A	1				0 VA	0 VA				1	20 A	Spare	LR-...
LR-...	Spare	20 A	1						0 VA	0 VA		1	20 A	Spare	LR-...
			Total Load:		14849 VA		17672 VA		16400 VA						
			Total Amps:		124 A		149 A		139 A						

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	22300 VA	100.00%	22300 VA		
Other	1200 VA	100.00%	1200 VA	Total Conn. Load:	48921 VA
Receptacle	19044 VA	76.25%	14522 VA	Total Est. Demand:	44493 VA
Lighting	377 VA	125.00%	471 VA	Total Conn.:	136 A
Water Heater	6000 VA	100.00%	6000 VA	Total Est. Demand:	124 A

Notes:

Electrical Disconnect Schedule

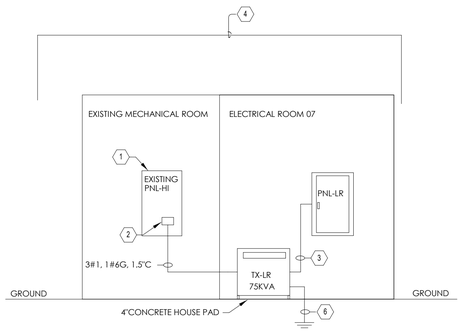
Mark	Description
ICE MAKER	30AMP, 1-PHASE, 3W, N1,208V, S/N, N.F., H.D. ROTARY TYPE DISCONNECT
RTU-1	100AMP, 3-PHASE, 3W, N3R,208V, S/N, H.D. FUSED DISCONNECT
WH-1	30AMP, 3-PHASE, 3W, N1,208V, S/N, N.F., H.D. ROTARY TYPE DISCONNECT

GENERAL NOTES:
1.) REFER TO BREAKER SIZE FOR FUSE SIZE.
2.) REFER TO PANELBOARD FOR DISCONNECT PHASES AND VOLTAGE.
3.) ALL 'CAB DISCONNECT, 'JH '&'JH1' DISCONNECTS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR, COORDINATE WITH SCHINDLER ELEVATOR MANUFACTURE SUPPLIER FOR LOCATION, ALL REQUIRED ELECTRICAL REQUIREMENTS AND STANDARDS. PROVIDE WITH AUXILIARY CONTACTS.

DRY-TYPE TRANSFORMER SCHEDULE

LABEL	TRANSFORMER DESCRIPTION	PRIMARY VOLTAGE FEEDER - 480V, 3□	SECONDARY VOLTAGE FEEDER - 120/208V, 3□, 4W
TX-LR	TYPE-DT-3: GENERAL, 75KVA, COPPER WINDINGS,3-PHASE, (P)480V-(S)208/120V,115°RISE,NEMA-1	3#1, 1#6G IN 1.5"C	4#1/0, 1#6G IN 2"C

NOTE: ALL DRY-TYP TRANSFORMER SHALL BE ENERGY EFFICIENT MODELS AND MEET 2016 ENERGY EFFICIENT REQUIREMENTS..



1 ELECTRICAL SCHEMATIC DIAGRAM
SCALE: N.T.S.

GENERAL NOTES:

A. PROVIDE GROUND /BONDING AS INDICATED ON THE NATIONAL ELECTRICAL CODE.
B. NAME PLATES SHALL BE PROVIDED FOR ALL ELECTRICAL SWITCH GEAR, PANEL BOARDS, LIGHTING CONTACTORS, LIGHTING CONTROL PANELS, ETC., BY ELECTRICAL CONTRACTOR.
C. NEW ELECTRICAL METERING AND SERVICE EQUIPMENT SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE LOCAL POWER UTILITY CO. AND CITY REQUIREMENTS. VERIFY AND COORDINATE WITH POWER UTILITY CO. AND AHJ BEFORE BID AND INSTALLATION.
D. COMPLY WITH NFPA 70E SAFETY REQUIREMENTS.
E. PANELBOARDS WITH MORE THAN 42 CIRCUITS SHALL BE IN ONE CABINET ENCLOSURE, UNLESS OTHERWISE NOTED.
F. PROVIDE 4"CONCRETE PAD FOR ALL DRY-TYPE TRANSFORMERS.
G. ALL TWO SECTION PANELBOARDS SHALL BE FEED THRU LUGS.
H. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF ELECTRICAL SERVICE TO THE NEW BUILDING WITHIN PROJECT SCHEDULE. COORDINATE ALL COST FOR LABOR AND MATERIALS WITH LOCAL ELECTRICAL UTILITY COMPANY PRIOR TO BID. ALL COST ASSOCIATED WITH THE DELIVERY OF ELECTRICAL SERVICE INCLUDING ALL MATERIALS SHALL BE INCLUDED IN BID. TRANSITION OF NEW ELECTRICAL SERVICE SHALL PROCEED IN WEEKENDS OR HOLIDAYS, INCLUDE ALL COST IN BID FOR OVERTIME FROM ELECTRIC UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE MADE FOR SERVICE DELIVERY COSTS AFTER CONTRACT HAS BEEN AWARDED.
I. ELECTRICAL SERVICE 480/277V 1000AMPS OR MORE SHALL INCLUDE GROUND FAULT PROTECTION.
J. ELECTRICAL SERVICE 120V THRU 480V 1000AMPS OR MORE SHALL INCLUDE AN ARC REDUCTION MAINTENANCE SWITCH. COORDINATE EXACT LOCATION OF SUCH SWITCH.
K. PROVIDE TRENCHING AND BACKFILLING FOR ALL UNDERGROUND CONDUITS FOR REGULAR NON-ASPHALT/CONCRETE SURFACE.
L. PROVIDE SAWCUT AND PATCHING FOR ALL UNDERGROUND CONDUITS FOR REGULAR ASPHALT OR CONCRETE SURFACE. INCLUDE ALL COST TO PATCH SURFACE TO MATCH EXISTING FINISH.
M. THE CONTRACTOR SHALL FURNISH SHORT-CIRCUIT AND PROTECTION DEVICE COORDINATE STUDIES WHICH SHALL BE PREPARED BY THE EQUIPMENT GEAR MANUFACTURER.
N. THE CONTRACTOR SHALL FURNISH AN ARC FLASH HAZARD ANALYSIS STUDY PER NFPA 70E-STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, REFERENCE ARTICLE 130.3 AND ANEEX D.
O. CONTRACTOR SHALL INCLUDE ALL COST TO PROVIDE SHORT CIRCUIT AND PROTECTIVE DEVICE. THE SHORT-CURCUIT AND PROTECTIVE DEVICE COORDINATE STUDIES SHALL BE SUBMITTED TO THE DESIGN ENGINEER PRIOR TO RECEIVING FINAL APPROVAL OF THE DISTRIBUTION EQUIPMENT SHOP DRAWINGS AND/OR PRIOR TO RELEASE OF EQUIPMENT DRAWINGS FOR MANUFACTURING. APPROVAL FROM THE ENGINEER MAY BE OBTAINED FOR PRELIMINARILY SUBMITTAL OF SUFFICIENT STUDY DATA TO ENSURE THAT THE SELECTION OF DEVICE AND CHARACTERISTICS WILL BE SATISFACTORY.

ELECTRICAL RISER DIAGRAM KEYED NOTES:

1. EXISTING 200A, 480/277V, 3□, 4W, PANEL-HI. FIELD VERIFY EXACT LOCATION AND EXISTING CONDITIONS PRIOR TO ANY WORK.
2. PROVIDE NEW 125A BREAKER IN EXISTING MAIN DISTRIBUTION PANEL. INCLUDE ALL NECESSARY MATERIAL REQUIRED FOR A PROPER INSTALLATION. FIELD VERIFY EXISTING CONDITIONS PRIOR TO ANY WORK.
3. PROVIDE NEW 1-RUN OF 4#1/0, 1#6G, 2"C. COORDINATE ALL ROUTING OF NEW CONDUIT PRIOR TO ANY WORK.
4. ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT IS INSTALLED PER NEC REQUIREMENTS.
5. ELECTRICAL CONTRACTOR TO FIELD VERIFY FOR NEW ELECTRICAL GEAR TO MEET CODE REQUIREMENTS.
6. 1#6G, GROUND ELECTRODE CONDUCTOR, CALDWELD CONNECTION TO BUILDING REBAR AND STRUCTURE STEEL.

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No.	Description	Date

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ELECTRICAL RISER DIAGRAM

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

E-300

Scale: 1/8" = 1'-0"

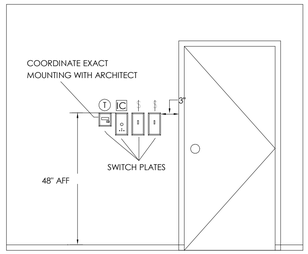
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NOTE:
VERIFY WITH DIVISION-15 FOR THERMOSTAT LOCATION AND HEIGHT.

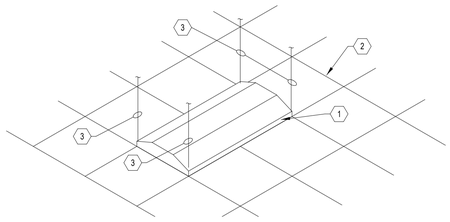


SWITCH PLATE LOCATION DETAIL
NO SCALE

02

KEYED NOTES:

1. 2'x 4' LAY-IN LED/FLUORESCENT FIXTURE
2. SUSPENDED CEILING
3. TIE WIRE, CONNECT TO ALL FOUR CORNERS OF FIXTURE TO TOP OF STRUCTURE, INDEPENDENT OF CEILING SUPPORTS.

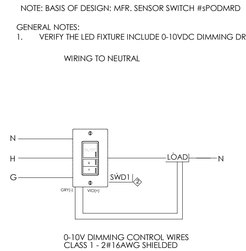


TYPICAL LAY-IN FIXTURE SUPPORT
NO SCALE

03

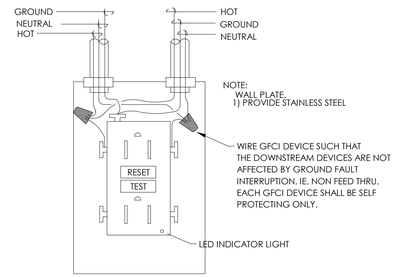
NOTE: BASIS OF DESIGN: MFR. SENSOR SWITCH #sPODMRD

GENERAL NOTES:
1. VERIFY THE LED FIXTURE INCLUDE 0-10VDC DIMMING DRIVER.



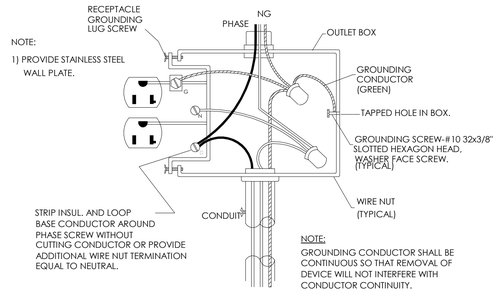
DIMMING WALL STATION SCHEMATIC DETAIL
NO SCALE

04



GFI RECEPTACLE- WIRING DIAGRAM
NO SCALE

05



TYPICAL RECEPTACLE GROUNDING DETAIL
NO SCALE

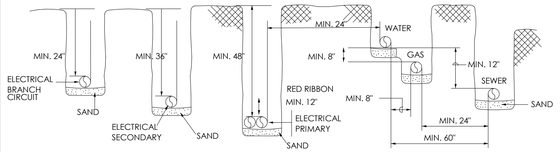
06

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

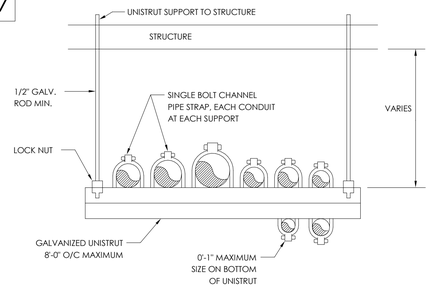
MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.



TRENCH DETAIL
NO SCALE

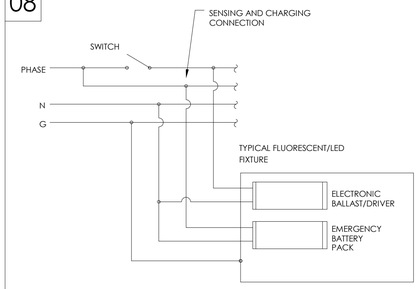
07



SUPPORT DETAIL FOR MULTIPLE CONDUIT HORIZONTAL RUNS
NO SCALE

08

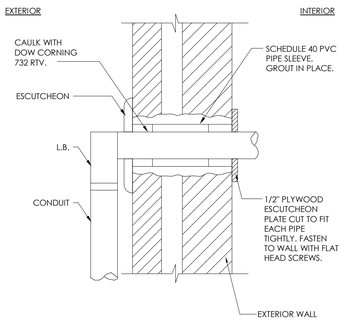
NOTE:
ALL EXIT LIGHT FIXTURE AND EMERGENCY FIXTURES SHALL BE ON THE NON-SWITCHED LEG. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE AND PLANS.



TYPICAL EMERGENCY LIGHT FIXTURE SCHEMATIC
NO SCALE

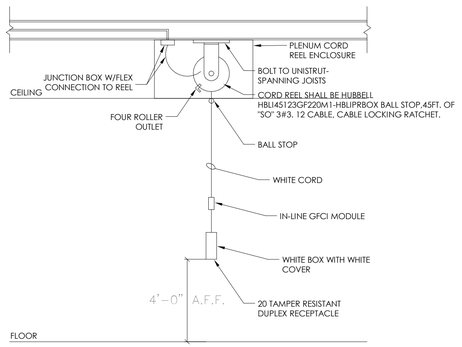
CAGE CODE 7454S

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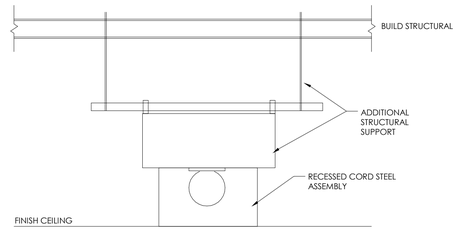
CONDUIT ENTRY THROUGH EXTERIOR
NO SCALE

10



CORD REEL MOUNTING DETAIL
NO SCALE

11



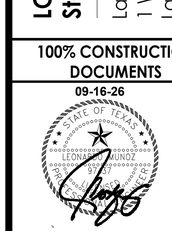
CORD REEL MOUNTING DETAIL
NO SCALE

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No.	Description	Date
1		

KEY PLAN

ELECTRICAL DETAILS

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

E-400

Scale: 1/8" = 1'-0"

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Texas Registered Engineering Firm - F10362
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Code Information:
Applicable codes include but are not limited to: City of Laredo Electrical Code, National Electrical Code (2020N.E.C.), International Building Code 2021 , Life Safety Code (NFPA 101), Texas Accessibility Standards, American with Disabilities Act.

16010 Basic Electrical Requirements:
Permits and Codes: Obtain and pay for all necessary permits and required inspections. Comply with all national, state and municipal laws, codes and ordinances relating to building and public safety. Provide any required temporary power and utilities for all trades and all construction trailers. Provide temporary construction lighting and power. Electrical Contractor shall include Temporary Electric: All temporary shall be in accordance with OSHA Construction standards 29FCR, Part 1926 and Article 590 of the 2008 National Electrical Code. Temporary lighting and power shall be provided in accordance with OSHA standards. The OSHA minimum illumination is 5 footcandles in general construction areas, and 10 FC in mechanical/electrical rooms and workrooms. Included are connections to all construction trailers. The cost of this work is to be included in the base electrical bid for the project.

VISITING THE JOB SITE:
Visiting the site of the proposed construction in order to fully understand the facilities, difficulties and restrictions attending the exectuion of the work. No additional compensation will be allowed Contractor for work or items omitted from his original proposal due to his failure to inform himself regarding such matters affecting the performance of the work in this contract or necessary for the installation and completion of the work included herein.

DRAWINGS:
Drawings are diagrammatic; confirm dimensions and locations in the field. If conflicting dimensions are shown, use larger dimensions and verify with Architect. See architectural plans and elevations for locations of fixtures and wall mounted devices. CONTRACTOR IS RESPONSIBLE TO VERIFY ELECTRICAL DRAWINGS SCALE AND DIMENSIONS WITH THE ARCHITECTURAL, CIVIL AND STRUCTURAL PLANS. Engineer with scale discrepancies.
MATERIAL:
All material shall be new, made in the USA and U.L listed. Material installation shall comply with NEC requirements and perform by craftsmen skilled in this particular work.

EQUIPMENT PROTECTION:
Protect equipment and work from damage during handling and installation until completion of construction.

COOPERATION WITH OTHER TRADES:
Cooperation with trades of adjacent, related or affected materials or operations, and with trades performing continuations of this work under subsequent contracts, is considered a part of this work in order to effect timely and accurate placing of work and to bring together, in proper and correct sequence of such trades. Provide other trades, as required, all necessary templates, patterns setting plans and shop details for the proper installation of the work and for the purpose of coordinating adjacent work.
Electrical power connections for mechanical and plumbing equipment are in this Division unless noted otherwise. Verify electrical characteristics of all equipment with Division 15 and other special divisions, etc.) before roughing in the electrical connection and energizing the equipment. (Plumbing/Special Equipment access and clearance areas: Remove any improperly installed electrical equipment and conduit that are limiting proper access for equipment service and maintenance.

ACCESS PANEL:
Provide access panels or doors for all devices requiring adjustment. Similarly for all junction boxes, pullboxes, etc.; that are required to be accessible per Code and/or the local authority having jurisdiction. Panel/doors shall be designed for the fire rating of wall or ceiling in which they are installed. All access panels shall be lockable and shall be keyed alike (same keying as panels for other divisions).
PLENUMS:
Plenums are crowded and not all obstacles are indicated. Allow for conduit offsets and pull boxes not indicated on drawings.

Plaster, gypsum board or other non-accessible ceilings:
Contractor shall minimize cutting and patching by installing conduit prior to ceiling/wall/partition cover-up.

LOSS OR DAMAGE TO FACILITIES:
The Contractor shall be responsible for loss or damage to the facilities caused by him and his workmen, and shall be responsible for repairing or replacing such loss or damage. The Contractor shall send proper notices, make necessary arrangement, and perform other services required for the care, protection and service maintenance of all electrical services for the new facilities. The Contractor shall erect adequate temporary, with necessary safety devices, as required to protect personnel and the general public from injury, removing all such temporary protection upon completion of the work.

The Contractor shall modify and/or replace all materials and items so indicated on the drawings or required by the installation of new facilities. Salvage materials shall remain on the property of the Owner and shall be delivered to such destination as directed by the Owner. Dispose of salvage materials if not retained by Owner.
WORK IN OCCUPIED AREAS:
Work in, above, below or near occupied areas shall be at Owner's convenience and may be during evenings or weekends. Schedule all required power outages a minimum of seven (7) days in advance with Facility Engineer. Do not turn off any power sources. Only Facilities Engineer or his authorized representative may do so.

FIRE STOPS AND PENETRATION SEALS:
All penetrations through fire rated floors and walls shall be sealed with 3M fire resistant foam sealant, to prevent the spread of smoke, fire, toxic gas or water through penetration either before, during or after fire. The fire rating of the penetration seal shall be at least that of the floor or wall into which it is installed. Follow the original fire rating of the floor or wall is maintained as required by article 300.21 of the National Electrical Code.

CLEAN UP:
A. Provide for isolation of work areas and daily removal of debris;
B. Clean all equipment and fixture lenses;
C. Replace all burned out lamps; and
D. Touch up with paint where required.

SUBMITTAL DATA:
Submittals are required but not limited to the following equipment:
Lighting Fixtures
Distribution Panelboards, Branch Circuit Panelboards, Switches, etc.
Fire Alarm System
Conduit/Fittings
Wire

SHOP DRAWINGS:
Shop drawings as required shall be provided by the Electrical Contractor at no additional cost to the Architect. These shop drawings shall be prepared to indicate installation at major equipment where special coordination problems exist. Overcurrent & Safety Disconnect Devices for HVAC Eqpt: Overcurrent & disconnect devices shown on plans are based on a specific HVAC equipment manufacturer. HVAC Contractor may submit other manufacturers, different models or ratings. It is the responsibility of the Electrical Contractor to coordinate OC/Disconnect devices with the HVAC Contractor prior to submittal of such drawings for Engineer's review. Any deviations from sizes shown on drawings must be noted in submittals. The Electrical Contractor must certify that he has reviewed and coordinated with the HVAC Contractor and that all OC/Disconnect devices submitted match the HVAC equipment requirements. Shop drawings without such certification will be returned to the Contractor. Only submittals with such certification will be reviewed.

COMPLETE SYSTEMS:
All systems shall be complete and working at completion of construction.

FINAL INSPECTION & OPERATING TESTS:
All electrical systems must be checked for proper polarity and sequence; all motors must be checked for proper rotation and all equipment (including HVAC, elevator and special equipment) check for proper voltage and phasing requirements. Prior to the application of any power, the Contractor must certify that connected equipment match the characteristics of the supply circuit voltage, phasing and feeder requirements.

At the time designated by the Architect, the entire system shall be inspected by the Architect and the Engineer. The Contractor or his representative shall be present at this inspection.
After all systems have been completed and put into operation, subject each system to an operating test under design conditions to ensure proper sequence and operation throughout the range of operation, make adjustments as required to ensure proper functioning of all systems. Special tests on Individual systems are specified under individual sections.

The Contractor shall provide a set of as-built drawings and mylar reproducible to the Owner. At completion, any items which are noted as needing to be changed or corrected in order to comply with these specifications and the drawings shall be accomplished without delay.

GUARANTEE:
Guarantee all work and material furnished under this contract for a period of one year from the date of acceptance by the Owner and Architect. Guarantee shall include: All labor, parts, travel/subsistence, software changes/re-programming, etc.
RECORD DRAWINGS:
Provide Record Drawings in AutoCad 2008 or higher and on e hard copy on reproducible media showing exact dimensions and location for all under-slab conduit, switchgear, panelboards, transformers, equipment, and revised homerun circuit locations, Electrical CAD backgrounds may be available from the engineer for a fee.

16111 CONDUIT
Conduit: Shall be rigid galvanized steel (RGS) or electrical metallic tubing (EMT) as manufactured by Allied Tube or Wheeling.
Outdoors above grade: EMT or RGS
Outdoors above grade, stub-ups, or on roof: RGS, IMC
Below grade: Schedule 40 or 80 PCV or RGG. Provide transition fittings from PVC Sch. 40 or 80 to RGS for above grade conduit. All underground metallic conduit shall have 409-mil thick external PVC coating for corrosion protection. Underground conduit minimum size 3/4". Minimum 24" burial depth from finished top of conduit, provide deeper burial depth if required by local codes. Provide concrete encasement for warning service conduit unless specifically noted otherwise. Provide red detectable warning tape over entire run of service and major conduit
Under slab: RGS, Schedule 80 PVC.
Install underground wire where shown on the drawings. Set-screw type fittings may be used for EMT. Minimum conduit size ½", however, homerun to panel shall be minimum 3/4".
MC Cable, if approved, however, may be used only for drops from ceiling plenum junction boxes to receptacles and light switches in walls. MC cable may also be used as fixture whips from ceiling plenum junction boxes to light conduit, MC homerun to panels are not acceptable.
Type "AC" armored cable (commonly referred to as "BX") is not acceptable and shall not be used.

Electrical nonmetallic tubing (ENT, NEC Article 362) shall not be used unless specifically approved by the Engineer. Flexible conduit shall be utilized as final connections (3'-5' only) at the following equipment: lighting fixtures, heater, power supplies, and other vibration producing equipment. Utilize ½" flexible metallic conduit minimum and include a green ground wire. Use sealtite in wet locations such as outdoor condensing units, walk-in cooler/freezer, kitchen, rooftop HVAC equipment, etc. Conduit shall be supported from structure every 5 feet and within 3 feet of all boxes. Use locknuts inside and out at boxes. Maintained minimum 12" separation from all high temperature pipes. All conduit runs shall be installed either parallel or perpendicular to building lines. Route conduit as directly as possible with largest radius bends possible. Make bends with standard ells or bends per NEC. Provide expansions fittings if conduit crosses structural expansion joint. All conduit on roof shall be supported by an engineered, prefabricated portable pipe system specifically designed to be installed above finished roof without roof penetrations or damage to roof membrane. Provide pipe support system by Erico, model "Caddy Pyramid" or equal by Cooper B-Line. Support at interval not to exceed 10' on center, and within 5' of any deflection of conduit. Clean conduit interior after installation; coat scratches with zinc paint. Provide pull wire in all conduit (power, fire alarm, telephone and other communication conduit). Pull wire also required in spare conduit.

Project Record Documents: Accurately record actual routing of all underslab and underground conduits; include dimensions from key building points and depth of cover.

16130 BOXES:
Outlet Boxes: Shall be galvanized steel suitable for location. Size boxes per NEC. Ceiling outlet boxes shall be 4" octagon. Wall outlet boxes shall be proper designed to accommodate the device required - 4 inch square with raised cover, provide raco, Steel City or Appleton. ALL J-BOXES / SPLICE BOXES MUST BE ACCESSABLE. Size boxes as needed.
Junction / Pull Boxes: (a) for each conduit run: provide one junction/pull box for each equivalent 360 degrees of conduit bends (270 degrees). (b) underground feeders: minimum one pull box for each 350 feet of conduit

16123 BUILDING WIRE AND CABLE:
Wire: (Triangle, American Insulation Cable Co., or Cablec)
All wiring shall be in conduit (except plenum rated low voltage cables). All Wires must be 75°C rated ampacity.
(a) Minimum size #12 except controls may be #14. Use #10 conductors for 20ampere, 120 volt branch circuits longer than 100 feet(verify electrical load prior to bid). Use #10 conductors for 20 ampere, 277volt branch circuits longer than 150 feet(verify electrical load prior to bid).
(b) Type THHN/THWN stranded copper thermoplastic in dry locations.
(c) Type THWN in wet locations (outdoor, underground, on roof, ….).
(d) All wire shall be 98% conductivity copper, 600 volt. NO ALUMINUM WIRES.
(e) Wire #10 and smaller may be solid or stranded, #8 or larger shall be stranded.
(f) Communication wires (Fire Alarm, Telephone, HVAC thermostat, data, and etc.): Plenum rated low-smoke cable may be used in lieu of wire/conduit type installation. All plenum rated cable shall be properly supported by bridal rings, cable ties, clips and etc. made by Erico (caddy communication fasteners) or equal. Do not use scrap wire to wrap and support communication wires. Homemade support devices are not acceptable. Do not lay communication cable directly on top of ceiling tiles. Install cables a minimum of 12" above ceiling tiles and 12" from HVAC ductwork. Provide a minimum of 6" separations between power conduit and communication wiring.

16140 WIRING DEVICES
Wiring devices: Furnish and install where indicated on drawings. All devices shall be Leviton "Decora" type (white color, confirm w/Architect) or approved equal unless specified otherwise by Architect.
All receptacles shall be "Spec Grade" type, min. 20Amp rated
Dimmer Switches: Provide dedicated neutral for dimmer controlled lighting circuit. Do not share with other branch circuits. Do not break fins (heat sinks) on dimmer switch. Derated dimmer switches may be used only where specifically approved by Engineer.
Ground Fault circuit interrupter (GFCI) receptacle shall comply with 2006 UL 943 safety standard. GFCI receptacle shall have integral end-of-life LED indicator light, and continuous sensing and self-testing every 60 seconds. Provide Hubbell GFRS352 or approved equal.
Cover plates: high abuse nylon or stainless steel per architect. Provide circuit number label on all plates.

All electrical boxes on opposite sides of corridor wall and firewalls must be separated by a distance of not less than 24 inches.
Testing and Certification: Contractor shall deliver a written report certifying that every receptacle has been tested as follows and found acceptable: (a) the physical integrity of each receptacle shall be confirmed by visual inspection. (b) The continuity of the grounding circuit in each electrical shall be verified. (c) Correct polarity of the hot and neutral connections in each electrical receptacle shall be confirmed.

16170 GROUNDING AND BONDING
Grounding: All conduit work and electrical equipment shall be effectively and permanently grounding in accordance with NEC requirements. Provide green equipment grounding conductor with all power and receptacle and lighting circuits. Green equipment grounding conductor shall be routed from panel ground bus to final
Grounding service electrodes: Provide 3 - ¾" x 10-ft long(refer to detail), copper-clad, steel grounding rod at below-grade connections provide exothermic welded type; for above grade connections provide local bolted-type connections utilizing high conductive copper alloy or bronze lugs or clamps.
Service ground resistance: Must be less than 25 ohms. Provide additional ground rods as required to obtain 25 ohms or less.

16195 ELECTRICAL IDENTIFICATION
Identification: Label all junction and pull boxes with panels and circuit numbers. All junction and pull boxes in ceiling pleum shall be labeled with circuits. Mark all branch conduit with circuit numbers at each surface mounted panel location.
Color Code: Conductors shall be color coded as follows: Refer to detail.

All panels shall be identified using name plates with 4 rows of text (letter height shall be ¼" minimum), example:
PANEL "XX" 225 AMPS MCB, SECTION #1 OF 2-SECTION PNL
208 Y/120V, 3 PHASE, 4 WIRE
FED FROM DIST PANEL "XXX", 1ST FLOOR

16210 ELECTRICAL SERVICE
Contractor shall make arrangements for temporary and permanent service. Comply with all installation standards of the saving utility. Electrical service characteristics shall be as shown on the electrical one line diagram. Contractor shall coordinate location of service entrance with the Company. Provide materials and equipment required to connect the project service to the utility system. Contractor shall submit to the Power Company an application for service. Contractor shall submit service application to the Power Company within 30 days after award of project Contractor shall secure a Service Outlet and Data Statement ("Statement") from the Power Company. Verify that the information on the statement is correct, including voltage, phase and number wires, type of service, service facility requirements, and location of service outlet. Failure to submit service application in a timely manner may cause project delay and additional cost. All such cost due to Contractor's failure to apply and coordinate for service in a timely manner shall be borne by the Contractor. Contractor shall coordinate and assist Owner if application is required to be submitted by Owner. Outages - Schedules power outages to avoid interference with the Owner's activities. Obtain approved from Owner at least 30 days prior to the requested outages. If required by the Owner, provide a schedule showing sequence and duration of all activities during the requested outages.

16470 PANELBOARDS - DISTRIBUTION AND BRANCH CIRCUIT
Note: All Electrical gear acceptable mfr. shall be the following: A.) Sq.D or B) Siemens, C) GE and D)EATON. All panelboards shall be of mfr. SQ-D. and shall have copper buses. Load center type panelboards are not acceptable and shall not be used. Provide breakers which are quick-make and quick-break on both manual and automatic operation. Use a trip-fire breaker which is trip indicating. Incorporate inverse time characteristic by thermatic overload elements and instantaneous characteristic by magnetic trip.
Provide single and 3-pole breakers, use the common-trip type so that an overload or fault on one pole will trip all poles simultaneously. Handle ties are not acceptable. All breakers shall be bolt-on thermal magnetic type. Push-on breakers are not acceptable. Do not use tandem circuit breakers. All circuit breakers rated 120/240 volts or less shall be suitable for terminating 75-degree C wire (breakers rated for only 60-degree C wire is not acceptable. See 16123 - Building Wire and Cable). ALL LUGS SIZES SHALL BE SIZE PER THE CONDUCTOR SPECIFIED ON THE ELECTRICAL PLANS.
All equipment shall be labeled, panelboards shall be labeled both on the coverplates and the interiors. Panelboard Directories: Provide a steel directory frame mounted inside the door with a transparent face and a directory card for identifying the loads served. Identify each circuit with load and locations (room names and room numbers) and indicate with typed directories. (Example: 5 duplex receptacles, Office, RM XXX). Install the panelboards such that the center of the switch or circuit breaker in the highest position will not be more than 6 ½ feet above the floor or working platform.
Furnish each panel: furnish and install one spare ¾" conduit for every 6 spares and/or spaces in the panel. Each spare conduit shall be installed with pull string subbed to a J-box located in accessible ceiling/plenum space. Install a minimum of one spare ¾" conduit for every panel shown on plans, even if there are on spares/spaces in some panels. Acceptable manufacturers are GE, Square D, Eaton, and Siemens.
16693 SURGE PROTECTION DEVICE
SPD shall be UL 1449 3rd Edition and testing in full compliance with ANSI/IEEE C62.41-1991 and ANSI/IEEE C62.45-1987
Acceptable mfr. shall be the following: A.) Sq.D or B) Siemens, C) GE , D)EATON, CURRENT TECHNOLOGY
The device shall be provided in a surface mounted NEMA 1 type hinged enclosure, with a NEMA rating that matches or exceeds that of the switchgear, distribution panel, sub or branch panelboard that is being protected. of minimum 14 gauge steel, painted inside and out. Enclosure width shall not be greater than 24
The device shall include a solid-state suppression system which includes arrays of fused non-linear voltage dependent metal oxide varistors (MOV's) with similar operating characteristics. The suppression system not utilize gas tubes, spark gaps, silicon avalance diodes or other components which might short or crowbar the line, thus leading to interruption of normal power flow to or system upset of connected loads. The suppression system shall not incorporate any other components which may degrade performance or reliability of the
The device shall include solid-state, long-life externally mounted LED visual status indicators that indicate the on-line status of each phase of the unit, Dry Contacts, Audible alarm with silence switch and For Service Entrance or Switchgear SPD's: LED visual status indicators, Audible alarm with silence switch, Dry Contacts plus Surge Event Counter.
The device shall be installed as close as practical to the facility's wiring system in accordance with NEC Article 285, IEEE 1100-2005 section 8.4.2.5, plus applicable national/local electrical codes and the manufacturer's recommended installation instructions. Connection shall be from a minimum 40A branch circuit breaker in the switchgear, distribution panel or panelboard with #4 AWG copper conductors not any longer than necessary, avoiding unnecessary bends. Advise the engineer if the installed in no case conductors will be longer than 3 feet in length. Verify circuit breaker size with the manufacturer shall be field tested in the presence of the Owner. At the same time operational shall be reviewed with the
Owner.

16441 ENCLOSED SAFETY SWITCHES
All safety switches shall be heavy-duty type with quick-make, quick-break contacts and suitable for terminating 75-degree C wire. Provide each switch with a ground lug. Provide a defeatable, front accessible, coin-proof door interlock to prevent opening the door when the switch is in the ON position and to prevent turning the switch ON when the door is open. Provide incoming line terminals with an insulated shield so that no live parts are exposed when the door is open. Provide each switch with an isolated, fully rated neutral block with provisions for bonding the block to the enclosure. Where fuses are shown, provide switches with rejection-type fuse holders which are suitable for use with fuses. In general, mount switches so that operating handle is approximately 44 inches above finished floor; where grouped, align tops of switches. Acceptable manufacturers are GE, Square D, Eaton, and Siemens.

GENERAL NOTES: [APPLY TO ALL ELECTRICAL SHEETS]
G1. All circuit numbers shown are for reference only. Field verify actual circuit numbers required adjustand according to type director(ies) reflection actual circuit numbers used, with field revised/relocated clearly indicated.

G2. Wires oversized to alleviate voltage drop: Where oversized wires are used to alleviate voltage Contractor shall to provide reducer lugs and/or J-boxes as required to terminate wires in equipments.
G3. All conduit and wire must be concealed from view. Exposed conduit and wire are not acceptable, exceptions are Mechanical/Electrical Rooms.
G4. All electrical and communication devices (light switches, receptacles, telephone, data etc.) shall recessed mounted unless noted otherwise. Field verify receptacle mounting requirements Owner/Arch., mount all duplex receptacles with the "u" ground terminal on top, unless noted otherwise as required by Owner/Arch. Neutral terminal shall be on top for horizontally mounted receptacles.
G5. Verify location of all outlets (power & communication) with Owner/Arch prior to rough-in. reserves the right to move any outlets 5 feet in any direction prior to rough-in. all receptacles within 6 feet of any wt area (example: sink, dishwasher, etc.) shall have ground fault circuit protection, specifically indicated on drawings or not.
G6. Mounting height of all outlets (receptacles, switches, telephone, data, etc.) in areas with shall be verified with Arch/Owner. Generally all outlets are to be mounted above countertop backsplash for disposers, undercounter dishwasher, undercounter refrigerators, etc. refer to Arch elevations.

G7. All weatherproof/wet location and/or outdoor receptacles shall have "wheaterproof-in-use" (NEC 406.8(B)). Provide Raco Bell Rayntite II covers or equal.

G8. Switches/starters for mech and other equipment: Location of disconnect switches, starters, stations, etc. are shown diagrammatically on the drawings. E.C. shall install such devices in compliance with Code required clearance requirements. All such devices shall be accessible after equipments are in place and satisfy code clearance requirements. Remove and re-install devices that are inaccessible or with adequate code clearance. Coordinate installation w/HVAC.
G9. HVAC Equipment: Overcurrent devices, disconnect switches, conduit/wire are selected based on equipment shown on Mechanical drawings.

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LC Executive Conference Center - Catering Staging Addition

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No.	Description	Date

KEY PLAN

ELECTRICAL DETAILS

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

E-401

Scale: 1" = 10'-0"

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Project number: W.2026.04.10.005

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PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	BALL VALVE		DOMESTIC COLD WATER
	CHECK VALVE		DOMESTIC HOT WATER
	GATE VALVE		DOMESTIC HOT WATER RETURN
	UNION		SANITARY SEWER VENT
	DIRECTION OF FLOW		SANITARY WASTE LINE
	WALL CLEANOUT	140°	140° HOT WATER
	FLOOR CLEANOUT YARD CLEANOUT		SANITARY DIRECTION OF FLOW
	FLOOR SINK		BRANCH - TOP CONNECTION
	FLOOR DRAIN		PIPE RISER
	WALL HYDRANT OR HOSE BIBB		PIPE DROP
			POINT OF CONNECTION (APPROXIMATED FIELD VERIFY EXACT POINT OF CONNECTION)

NOTE: 1. NOT ALL SYMBOLS USED ON THIS PROJECT
2. INSTALL WATER CLOSET FLUSH VALVE HANDLE TOWARDS WIDER SIDE OF WATER CLOSET OR DOOR OPENING.
3. INSTALL ADA APPROVED FLUSH VALVE HANDLE FOR ADA PLUMBING FIXTURES.

PLUMBING PIPING MATERIAL:

1. SANITARY DRAIN & VENT INSIDE BUILDING BELOW GRADE: SCHEDULE 40 PVC SOLID CORE. CELLULAR CORE TYPE NOT ACCEPTABLE.
2. SANITARY DRAIN OUTSIDE BUILDING: SCHEDULE 40 PVC SOLID CORE. CELLULAR CORE TYPE NOT ACCEPTABLE.
3. SANITARY DRAIN & VENT INSIDE BUILDING ABOVE GRADE: SCHEDULE 40 PVC
4. SANITARY DRAIN & VENT IN PLENUM CEILING: NO-HUB CAST IRON
5. ACID WASTE PIPING: FR POLYPROPYLENE
6. ACID VENT IN PLENUM CEILING: FR-PVDF
7. DOMESTIC HOT & COLD WATER: COPPER, TYPE "L" HARD DRAWN
8. DOMESTIC WATER BELOW GRADE: COPPER, TYPE "K" SOFT ANNEALED
8. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING 2" SIZE AND SMALLER: COPPER, TYPE "L" HARD DRAWN
9. DOMESTIC WATER BELOW GROUND OUTSIDE OF BUILDING PIPING OVER 2" SIZE: SDR 26 CLASS 160 PVC

ABBREV. DESCRIPTION

AC	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
ASA	AMERICAN STANDARDS ASSOCIATION
ASME	AMERICAN SOICIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AW	ACID WASTE
AWWA	AMERICAN WATER WORKS ASSOCIATION
AV	ACID VENT
BTUH	BRITISH THERMAL UNIT PER HOUR
CA	COMPRESSED AIR
CI	CAST IRON
CO	CLEANOUT
CU	COPPER
DN	DOWN
EQ	EQUAL
FCO	FLOOR CLEANOUT
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
GAL	GALLON(S)
GALV	GALVANIZED
GW	GREASE WASTE
HB	HOSE BIBB
HP	HORESPOWER
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
RD	ROOF DRAIN(S)
RE:4/P6	REFER TO DETAIL 4 DRAWING P-6
RO	REVERSE OSMOSIS
SD	STORM DRAIN
SPEC	SPECIFICATION
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
VTR	VENT THRU ROOF
V	VACUUM
W/	WITH
WCO	WALL CLEAN OUT
YCO	YARD CLEAN OUT

PLUMBING GENERAL NOTES: (ALL SHEETS)

A. ALL WORK AND MATERIAL SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES AS ADAPTED AND AMENDED BY THE INSPECTING AUTHORITIES.

B. ALL PLUMBING WORK SHALL BE INSTALLED SO AS TO AVOID CONFLICT WITH ALL ELECTRICAL WORK, MECH'L WORK AND STRUCTURAL MEMBERS. COORDINATE WITH MECHANICAL, ELEC'L AND STRUCTURAL FOR PROPER CLEARANCES.

C. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PHASING AND SEQUENCE OF CONSTRUCTION OF WORK.

D. SLEEVE ALL OUTSIDE WALL, FLOOR SLAB, AND GRADE BEAM PENETRATIONS PER DETAILS AND PER CODE.

E. LOCATE ALL PLUMBING VENTS TO ROOF (VTR) SO THAT THEY TERMINATE A MINIMUM OF 1'-0" AWAY FROM ANY VERTICAL SURFACE AND 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES.

F. RECORD INVERT ELEVATIONS OF ALL YCO'S ON "AS-BUILT" DRAWINGS.

G. MINIMUM 3" WASTE LINE BELOW FLOOR AND MINIMUM 2" WASTE RISER. UNLESS NOTED OTHERWISE (UNO).

H. PLUMBING CONTRACTOR SHALL PAY FOR ALL UTILITY CONNECTIONS FEES, PERMITS, TESTS AND INSPECTIONS. FURNISH 3 COPIES OF INSPECTION CERTIFICATE BEFORE REQUESTING FINAL PAYMENT.

I. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING AND REPAIRING ALL AREAS WHICH ARE DAMAGED BY HIS OPERATIONS.

J. CUTTING OF CONCRETE FLOORS SHALL BE BY MACHINE SAW. HOLES FOR PIPES (WALL OR FLOOR) SHALL BE DONE WITH CORE DRILLING EQUIPMENT WITH PRIOR APPROVAL FROM THE STRUCTURAL ENGINEERS.

K. PRESSURE TEST ALL INSTALLATIONS PRIOR TO CONNECTING EQUIPMENTS.

L. LABEL ALL PIPING PER ANSI STANDARD.

M. PROVIDE PROPER INSULATION ON ALL HOT WATER PIPING, STORM PIPING AND CONDENSATE PIPING.

N. PROVIDE SHUT-OFF VALVES (STOPS) ON ALL ROUGH-INS TO FIXTURES AND EQUIPMENTS.

O. PROVIDE ANY BACK FLOW PREVENTION DEVICE REQUIRED BY CODE OR GOVERNING AUTHORITIES. CONTRACTOR SHALL VERIFY THIS WITH CITY OR LOCAL AGENCIES AND INCLUDE COST OF SAME IN BID. CONTRACTOR TO HAVE BACK FLOWS CERTIFIED.

P. PROVIDE WATER HAMMER ARRESTORS AS INDICATED ON THE DRAWINGS. AIR CHAMBERS NOT AN APPROVED SUBSTITUTE.

Q. ALL EXPOSED PIPING FOR DESIGNATED DISABLED ACCESS FIXTURES SHALL BE COVERED OR OTHERWISE WRAPPED IN ACCORDANCE WITH A.D.A. REQUIREMENTS AND LOCAL AUTHORITY.

R. ALTERNATE MATERIALS NOT IDENTIFIED IN SPECIFICATIONS/DRAWINGS BUT APPROVED BY LOCAL AUTHORITY SHALL BE SUBMITTED TO ARCHITECT AND PLUMBING ENGINEER FOR REVIEW PRIOR TO INSTALLATION.

S. ISOMETRIC DIAGRAMS ARE FOR SIZING PURPOSES ONLY AND SHALL NOT BE USED FOR MATERIAL TAKE-OFFS, OR BE CONSTRUED TO INDICATE ACTUAL SITE INSTALLATION.

T. DRAWING IS DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF PIPING, DEVICES AND EQUIPMENT WITH BUILDING ELEMENTS AND THE WORK OF OTHER TRADES.

U. EVERY FLOOR DRAIN, FLOOR SINK OR HUB DRAIN SHALL BE SERVED BY AN AUTOMATIC TRAP PRIMER, UNO.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE TYPE	CONNECTION SIZE				DESCRIPTION
		San. Sewer	Vent	Cold Water	Hot Water	
SK-1	DOUBLE-COMPARTMENT SINK ADA COMPLIANT	2"	2"	1/2"	1/2"	ELKAY LRAD3322553 18-GAUGE, FULLY UNDERCOATED, STAINLESS STEEL, DOUBLE-BOWL, THREE FAUCET HOLE, ADA COMPLIANT, 3-1/2-INCH OUTLET. FAUCET: ELKAY LKD2442-BH SERIES, FLOW RATE (2.2 GPM) . LEDGE MOUNTED, 8-INCH CENTER-SET ESCUTCHEON, TWO WRIST BLADE HANDLES, 8-INCH GOOSENECK SPOUT. SUPPLY: MCGUIRE 2167 SERIES. TRAP: MCGUIRE 8912 SERIES. STRAINER AND TAILPIECE: MCGUIRE 151 SERIES. BASKET TYPE. PROVIDE P-TRAP: 17 GAUGE CHROME DEARBORN BRAND PROVIDE SINK/LAV WITH SINGLE OUTLET THERMOSTATIC MIXING VALVE (TMV). WATTS LFMMV-US-M1. SET TEMPERATURE AS PER LOCAL JURISDICTION.
MS-1	MOP SINK	3"	2"	1/2"	1/2"	FIAT MODEL NO, TSB100, 24"X24"X12" TERRAZO MOP SINK, COMPLETE WITH FAUCET MODEL 830-AA, MOP SINK SHALL INCLUDE ALL HOSE BRACKETS, HOSE, AND MOP HANGER, WITH 3" DRAIN WITH STRAINER & DEEP SEAL P-TRAP. PROVIDE WALL GUARD MSG2424.
TMV-1	THERMOSTATIC MIXING VALVE	-	-	3/4"	3/4"	BRADLEY THERMOSTATIC MIXING VALVE MODEL S59-2025-TMV25 SURFACE, PROVIDE WITH CABINET TO BE EQUAL TO BRADLEY CABINET MODEL CAB-TMV25-R-S-T-P-SS-W SURFACE MOUNT STAINLESS STEEL CABINET.
FD-1	RESTROOM FLOOR DRAIN	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 30003-4-A-Y-50, CAST IRON BODY WITH CLAMP RING, FLANGE, ADJUSTABLE NIKALOY STRAINER, HUB OUTLET WITH GASKET AND 1/2" PRIMER TAP.
FS-1	DISHWASH/PREP. SINK FLOOR SINK	AS NOTED ON PLANS				EQUAL TO JOSAM PART # 49364A-4-31-Z-SSLF, 12" SQUARE A.R.E. TOP, WITH 9-7/8" DEEP SUMP STAINLESS STEEL FLOOR SINK LESS FLANGE, 3/4 GRATE, ALUMINUM SEDIMENT BUCKET.
FCO	FLOOR CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C1100-R-1" ADJUSTABLE FLOOR CLEANOUT, COMPLETE WITH NICKEL BRONZE TOP ASSEMBLY, LACQUERED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, AND PRIMARY GASKET SEAL.
YCO	YARD CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C-1220" LACQUERED CAST IRON CLEANOUT, THREADED BRONZE PLUG FOR AIR TIGHT SEAL AND STANDARD REINFORCED SATIN FINISHED NICKEL BRONZE ADJUSTABLE TOP ASSEMBLY.
WCO	WALL CLEANOUT	AS NOTED ON PLANS				MIFAB MODEL "C1430-RD" CAST BRONZE CLEANOUT PLUG. COMPLETE WITH STAINLESS STEEL WALL ACCESS COVER AND ANCHOR SCREW. MOUNT 24" A.F.F.

NOTES:

1.) INSULATE ALL WATER AND WASTE PIPING UNDER LAVATORIES WITH HANDY-SHIELD JACKET BY PLUMBEREX.

2.) PROVIDE SINGLE FIXTURE WATER HAMMER ARRESTORS EQUAL TO MINI-RESTER , HYDRA-RESTER SIOUX CHIEF. FOR ALL PLUMBING FIXTURES IN THE WATER SUPPLY SYSTEM.

3.) ALL VITREOUS CHINA FIXTURES SHALL BE WHITE.

WATER HEATER SCHEDULE

MARK	STORAGE GALLONS	RECOVERY GPH	DEGREE RISE DEG F	WATER TEMP LEAVING	WATER INLET	WATER OUTLET	VOLTAGE/ PHASE	ELEMENTS KW	DESCRIPTION
WH-1	20	21.5	65	140	3/4"	3/4"	208/1	2.0	BRADFORD WHITE ELECTRIFLEX LD MODEL LE120U3-1. PROVIDE WITH ASSE 1070 TMV, HOLD RITE RESTRAINT SYSTEM, AND WATTS PLT-5 EXPANSION TANK.

APPLICABLE BUILDING CODE

2021 INTERNATIONAL BUILDING CODE
2021 INTERNATIONAL PLUMBING ELECTRICAL CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL ENERGY CONSERVATION CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2020 NATIONAL ELECTRICAL CODE OF THE NATIONAL FIRE PROTECTION ASSOCIATION
2021 INTERNATIONAL FIRE CODE
2012 TEXAS ACCESSIBILITY STANDARDS
2021 INTERNATIONAL RESIDENTIAL CODE
2021 INTERNATIONAL PROPERTY MAINTENANCE CODE
2021 INTERNATIONAL PRIVATE SEWAGE DISPOSAL CODE

INDEX OF SHEETS PLUMBING

Sheet Number	Sheet Name
P-000	PLUMBING LEGEND
P-100	PLUMBING SEWER & VENT FLOOR PLAN
P-200	PLUMBING DOMESTIC WATER FLOOR PLAN
P-300	PLUMBING DETAILS

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LEONARDO MUNOZ 97675 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

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No.	Description	Date

KEY PLAN

PLUMBING LEGEND

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

P-000

Scale: 1/8" = 1'-0"

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GREASE INTERCEPTOR CALCULATIONS

Quote: 31X8DFF1

Reference No. 108741 — Project Name: LC Executive Conference Center - Catering

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
2 Compartment Sink	2 Compartment Sink	36" x 21" x 14" (2)	1	21,168	34.36 GPM
Floor Drain	Floor Drain	N/A	2	N/A	0 GPM
Floor Sink	Floor Sink	N/A	1	N/A	0 GPM
Mop Sink	Mop Sink	24" x 24" x 10"	1	5,760	9.35 GPM
Total					43.71 GPM

Step 2: Grease Production

Total square feet x 60% = Dining area

Dining area / 14 Sq ft per seat x 4 turns per seat per day x [Grease Production Value] x [Days between pump-out] = Grease output

Amount of square feet in facility: 667

Grease production value: 0.0455 lbs per serving (Cafeteria - Full Serve: High / Flatware)

Days between pump-outs: 90 days

(667 x .6) / 14 x 4 x 0.0455 x 90 = 468.234 lbs of FOG

GB-75	Description: GREASE INTERCEPTOR 75 GPM, 4" PLAIN/FPT CONNECTIONS Dimensions: Length: 47", Width: 33", Height: 39.75" Flow Rate/Grease Capacity: 75 GPM / 861 lbs Liquid Capacity: 125 gal

Specification Note: This Great Basin model has been sized to the flow rate and grease production requirements of the application and may not be substituted by liquid capacity alone. Any substitution requests must be approved by the specifying engineer and the authority having jurisdiction.

Please contact support@schierproducts.com for technical and procurement support for the specified Great Basin model.

PLUMBING KEYED NOTES	
1	COPPER CONDENSATE DRAIN FROM ROOF TOP UNIT, PROVIDE 1/2" INSULATION. DISCHARGE TO FLOOR DRAIN/MOP SINK. COORDINATE ROUTING WITH HVAC CONTRACTOR.
2	PROPOSED GREASE INTERCEPTOR LOCATION. PROVIDE GREASE INTERCEPTOR BY SCHIER, MODEL NR. GB-75, OR EQUAL; REFER TO DETAIL SHEET P-300. LOCATE BEYOND SIDEWALK, AND FIELD VERIFY EXACT LOCATION ROUTING OF DRAIN LINE.
3	PROVIDE SAMPLE WELL BY SCHIER, MODEL NR. SV24, OR EQUAL, AT THIS APPROXIMATE LOCATION. FIELD COORDINATE EXACT LOCATION. REFER TO DETAIL 15/P-300.
4	COORDINATE EXACT LOCATION OF ALL FLOOR SINKS AND FLOOR DRAIN WITH KITCHEN EQUIPMENT CONTRACTOR.
5	KEEP ALL VENTS THRU ROOF (VTR) AT LEAST 10 FEET AWAY FROM ANY FRESH AIR INTAKE COORDINATE LOCATION OF ALL VTRs WITH HVAC CONTRACTOR.
6	REFER TO CIVIL SITE PLAN FOR CONTINUATION OF PLUMBING FIVE FEET AWAY FROM BUILDING. PLUMBING CONTRACTOR SHALL VERIFY LOCATIONS, INVERT SLOPE, ELEVATION, AND DIRECTION OF FLOW WITH CIVIL ENGINEERING DRAWINGS.

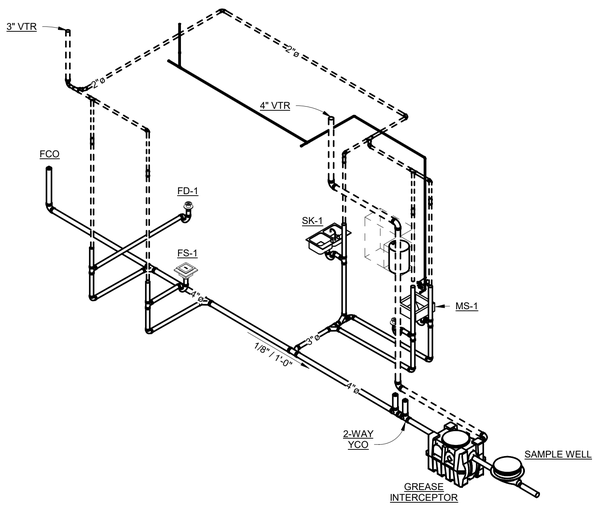
GENERAL NOTES:

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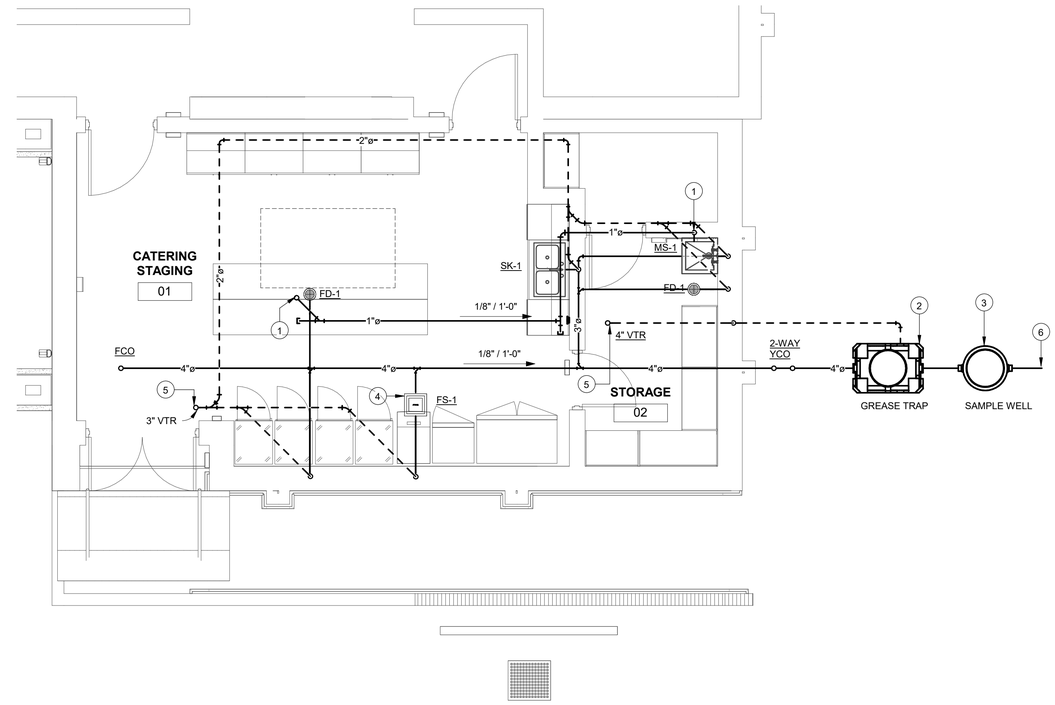
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IT IS MANDATORY FOR GENERAL CONTRACTORS TO FIELD VERIFY AND SURVEY THE ENTIRE SITE PRIOR TO BIDDING. CONTRACTOR TO IDENTIFY ANY POSSIBLE DISCREPANCIES.



2 PLUMBING SEWER & VENT RISER



1 PLUMBING SEWER - FIRST FLOOR
1/4" = 1'-0"

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No.	Description	Date

KEY PLAN

PLUMBING SEWER & VENT FLOOR PLAN

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

P-100

Scale: 1/4" = 1'-0"

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DOMESTIC WATER DEMAND (GPM)

FIXTURE	TOTAL FIXTURES	HOT & COLD (WSFU) LOAD	TOTAL (WSFU)
SERVICE SINK	2	3	6
KITCHEN SINK	1	4	4
TOTAL LOAD WATER SUPPLY FIXTURE UNIT (WSFU)			10
TOTAL DEMAND GALLONS PER MINUTE (GPM)			27

WATER DEMAND IS BASED ON 2024 INTERNATIONAL PLUMBING CODE TABLE E103.3
(friction loss in smooth pipe (type L, ASTM B 88 copper tubing))

PLUMBING KEYED NOTES	
1	CONNECT NEW 1" CW TO EXISTING CW OF EQUAL OR GREATER SIZE. VERIFY SIZE AND LOCATION OF EXISTING CW PRIOR TO CONSTRUCTION.
2	BRONZE CUT-OFF VALVE ABOVE CEILING. PROVIDE ACCESS PANEL WHERE LOCATED IN AN INACCESSIBLE CEILING. PANEL SHALL BE 12"X12" PAINTED TO MATCH CEILING.
3	PROVIDE THERMOSTATIC MIXING VALVE EQUAL TO WATTS LFMMV-US-M1, TO SERVE SINK/SINKS. SET TEMPERATURE PER LOCAL JURISDICTION REQUIREMENTS.
4	PRESSURE DROP ACTIVATED TRAP PRIMER. PROVIDE ACCESS PANEL IF INACCESSIBLE. SEE DETAIL 07/P-300.
5	INSTALL ELECTRIC WATER HEATER 6' A.F.F. WITH WATER HEATER STAND EQUAL TO HOLDRITE QUICK STAND 40-SWHP-W. STAND TO INCLUDE BUILT-IN DRAIN PAN WITH 1" PVC DRAIN FITTING. MAXIMUM 20-GALLON CAPACITY. REFER TO DETAIL 11/P-300

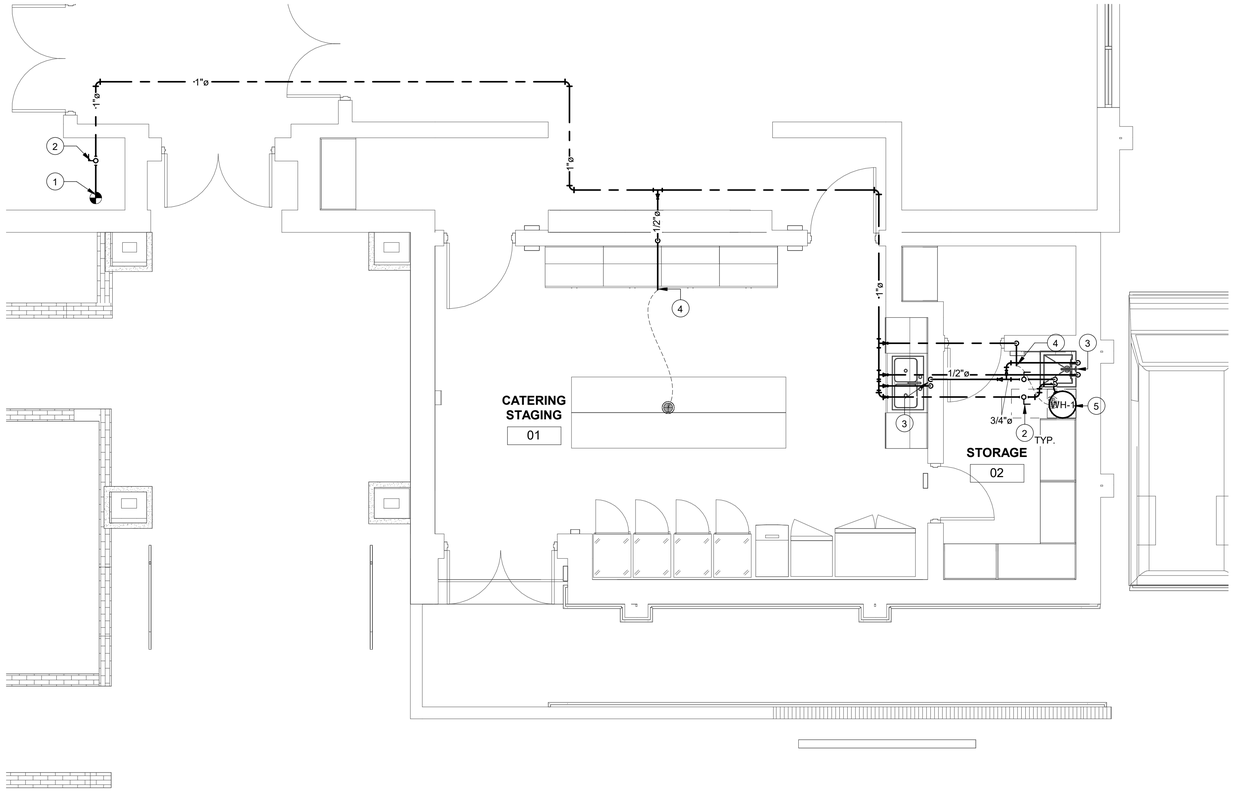
GENERAL NOTES:

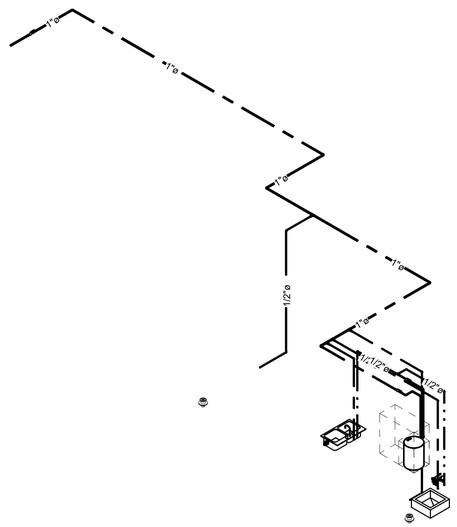
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2 PLUMBING DOMESTIC WATER RISER

1 PLUMBING DOMESTIC WATER- FIRST FLOOR
1/4" = 1'-0"

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No.	Description	Date

KEY PLAN

PLUMBING DOMESTIC WATER FLOOR PLAN

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

P-200

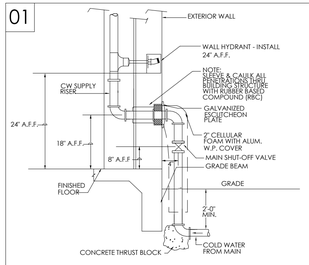
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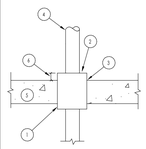
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WATER SERVICE ENTRANCE DETAIL

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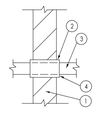
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FLOOR PENETRATION DETAIL

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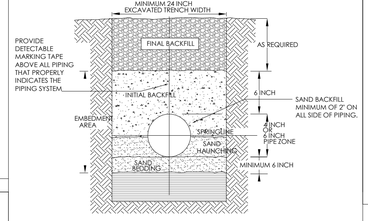
09



WALL SLEEVE DETAIL

NO SCALE

13



UNDERGROUND INSTALLATION OF PLASTIC PIPE

PLASTIC PIPE SHOULD ALWAYS BE BURIED IN STRICT ACCORDANCE WITH THE ASTM STANDARD RELEVANT TO THE TYPE OF PLASTIC PIPING SYSTEM BEING INSTALLED. THOSE STANDARDS ARE:

ASTM D2321 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS.

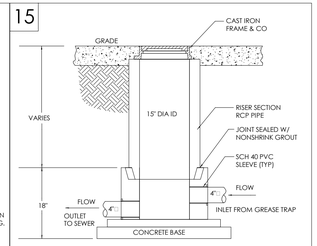
ASTM D2774 STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING.

NOTE: IN ADDITION TO THESE STANDARDS, PIPE SHOULD ALWAYS BE INSTALLED IN ACCORDANCE WITH ALL TPWD CODE REQUIREMENTS

RECOMMENDATIONS FOR UNDERGROUND INSTALLATION OF PLASTIC DRAINAGE PIPE:

1. THE MINIMUM WIDTH OF THE TRENCH SHOULD BE THE PIPE OD (OUTSIDE DIAMETER) PLUS 16 INCHES OR THE PIPE OUTSIDE DIAMETER TIMES 1.25 PLUS 12 INCHES, THIS WILL ALLOW ADEQUATE ROOM FOR JOINING THE PIPE, SHAKING THE PIPE IN THE TRENCH TO ALLOW FOR EXPANSION AND CONTRACTION WHERE APPROPRIATE AND SPACE FOR BACKFILLING AND COMPACTION OF BACKFILL. THE SPACE BETWEEN THE PIPE AND TRENCH WALL MUST BE WIDER THAN THE COMPACTION EQUIPMENT USED TO COMPACT THE BACKFILL.
2. PROVIDE A MINIMUM OF 6 INCHES OF FIRM, STABLE AND UNIFORM SAND BEDDING IN THE TRENCH BOTTOM. IF ROCK OR UNYIELDING MATERIAL IS ENCOUNTERED, A MINIMUM OF 8 INCHES OF SAND BEDDING SHALL BE USED. BLOCKING SHOULD NOT BE USED TO CHANGE PIPE GRADE OR TO INTERMITTENTLY SUPPORT PIPE OVER LOW SECTIONS IN THE TRENCH.
3. THE PIPE SHOULD BE SURROUNDED WITH A MINIMUM OF 2" OF CLEAN SAND WHICH CAN BE EASILY WORKED AROUND THE SIDES OF THE PIPE. BACKFILLING SHOULD BE PERFORMED IN LAYERS OF 6 INCHES WITH EACH LAYER BEING SUFFICIENTLY COMPACTED TO 85% TO 95% COMPACTION.
4. A MECHANICAL TAMPER IS RECOMMENDED FOR COMPACTING SAND AND GRAVEL. THESE MATERIALS CONTAIN FINE-GRAINS, SUCH AS SILT AND CLAY. IF A TAMPER IS NOT AVAILABLE, COMPACTING SHOULD BE DONE BY HAND.
5. THE TRENCH SHOULD BE COMPLETELY FILLED. THE BACKFILL SHOULD BE PLACED AND SPREAD IN UNIFORM LAYERS TO PREVENT ANY UNFILLED SPACES OR VOIDS. LARGE ROCKS, STONES, FROZEN CLODS, OR OTHER LARGE DEBRIS SHOULD BE REMOVED. STONE BACKFILL SHALL PASS THROUGH AN 1-1/2" SIEVE, ROCK SIZE ONE-TENTH OF THE PIPE OUTSIDE DIAMETER. HEAVY TAMPERS OR ROLLING EQUIPMENT SHOULD BE ABOUT ONLY BE USED TO CONSOLIDATE THE FINAL BACKFILL.
6. TO PREVENT DAMAGE TO THE PIPE AND DISTURBANCE TO PIPE EMBEDMENT, A MINIMUM DEPTH OF BACKFILL 18" ABOVE THE PIPE SHALL BE MAINTAINED. PIPE SHOULD ALWAYS BE INSTALLED BELOW THE FROST LEVEL. TYPICALLY, IT IS NOT ADVISABLE TO ALLOW VEHICULAR TRAFFIC OR HEAVY CONSTRUCTION EQUIPMENT TO TRAVERSE THE PIPE TRENCH.

15



TEST WELL BASIN

NO SCALE

02

CLEAR TRENCH OF ALL ROCKS AND DEBRIS BEFORE ADDING SAND CUSHION.

COMPACT TRENCH FILL TO 95% PROCTOR DENSITY.

MAINTAIN A MINIMUM OF 60 INCHES UNDISTURBED EARTH BETWEEN PARALLEL WATER AND SEWER LINES OR SUPPORT WATER LINE ON SEPARATE SHELF A MINIMUM OF 12" ABOVE SEWER LINE.

MAINTAIN A MINIMUM OF 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND SEWER. MAINTAIN A MINIM OF 12" VERTICALLY OR 24" HORIZONTALLY BETWEEN ELECTRICAL PRIMARY AND WATER LINES, GAS LINES, TELEPHONE RACEWAYS AND CABLE RACEWAYS.

TRENCHING DETAIL

NO SCALE

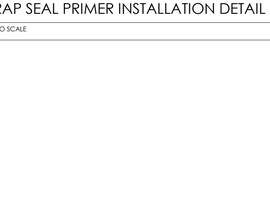
06



YARD CLEANOUT DETAIL

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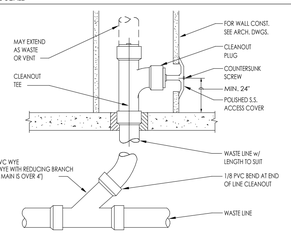
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FLOOR CLEANOUT DETAIL

NO SCALE

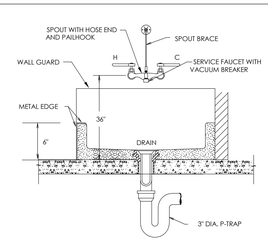
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WALL CLEANOUT DETAIL

NO SCALE

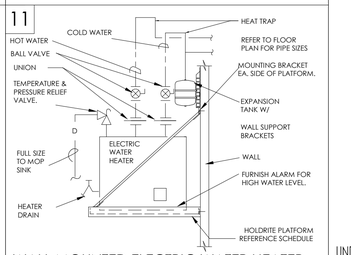
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MOP SINK DETAIL

NO SCALE

11



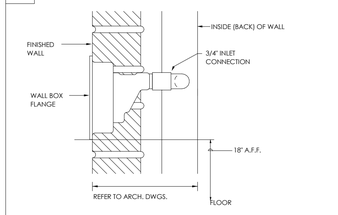
WALL MOUNTED ELECTRIC WATER HEATER

NO SCALE

UNDERGROUND INSTALLATION DETAIL OF PLASTIC PIPING SYSTEMS

NO SCALE

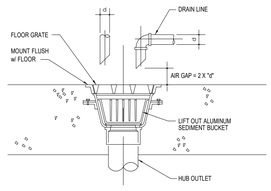
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WALL HYDRANT DETAIL

NO SCALE

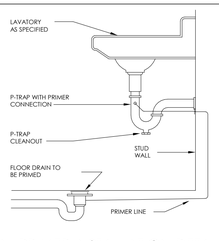
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FLOOR SINK DETAIL

NO SCALE

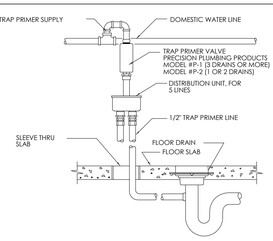
12



TRAP SEAL PRIMER INSTALLATION DETAIL

NO SCALE

14



TRAP SEAL PRIMER DETAIL

NO SCALE

SPECIFICATION NOTES

(1) 4" FPT inlet/outlet with 4" plain end fittings
(2) Unit weight: 120 lbs. For wet weight, add 1,043 lbs. For traffic-rated cover(s), add 90 lbs per cover. For pedestrian cover(s), add 7 lbs per cover.
(3) Maximum operating temperature: 150° F continuous
(4) Liquid Capacity: 125 gal
Grease Capacity (75 GPM): 861 lbs (118 gal)
Solids Capacity: 31 gal
(5) For gravity drainage applications only
(6) Do not use for pressure applications
(7) Cover placement allows full access to tank for proper maintenance
(8) Vent not required unless per local code
(9) Engineered inlet and outlet diffusers with inspection ports are removable to inspect / clean piping
(10) Integral air relief / Anti-siphon / Sampling access
(11) Cover adapters provide an adjustable height range of 5"
(12) Designed for below-grade, above-grade, indoor or outdoor installations
(13) Safety Stan® (450 lbs load capacity) is an access restrictor built into each cover adapter to prevent accidental entry into tanks

CERTIFIED PERFORMANCE

Great Basin® hydromechanical grease interceptors are third party performance-tested and listed by IAPMO to ASME A112.14.3 and CSA B481.1 grease interceptor standards and greatly exceed requirements for grease separation and storage. They are compliant to the Uniform Plumbing Code and the International Plumbing Code.

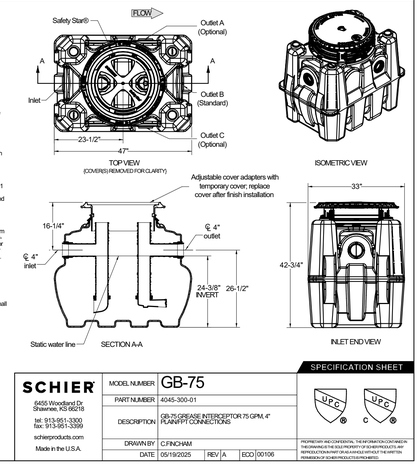
ENGINEER SPECIFICATION GUIDE

Schier Great Basin® grease interceptor model GB-75 shall be lifetime guaranteed and made in USA of seamless, molded polyethylene with minimum 3/8" uniform wall thickness. Interceptor shall be furnished for above or below-grade installation with adjustable cover adapter, Safety Stan® access restrictor built into each cover adapter, and three outlet options. This unit is certified for hydromechanical performance to ASME A112.14.3 (Type D) and CSA B481.1. Maximum flow rate shall be 75 GPM. Interceptor grease capacity shall be 861 lbs.

COVERS SOLD SEPARATELY

This unit is provided with temporary cover(s) intended for the duration of jobsite installation. Purchase one of the following finish covers.

- T24-GI (8044-000-01): Traffic-rated (AASHTO H-20) cast iron cover shall provide watertgas-tight seal and have a minimum of 16,000 lbs load capacity. For outdoor installation.
- P24-GI (8045-000-01): Pedestrian-rated poly cover shall provide watertgas-tight seal and have a minimum of 2,000 lbs load capacity. For indoor installation.



SPECIFICATION SHEET

SCHIER
6405 Woodland Dr
Shawnee, KS 66218
tel: 913-951-3300
fax: 913-951-3399
schierproducts.com
Made in the U.S.A.

MODEL NUMBER	GB-75
PART NUMBER	4045-300-01
DESCRIPTION	GB-75 GREASE INTERCEPTOR 75 GPM, 4" PLAINPTT CONNECTIONS
DRAWN BY	C.FINCHAM
DATE	05/19/2025 REV A ECO 00106

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Texas Registered Engineering Firm - F10362
Project number: W.2026.04.10.005

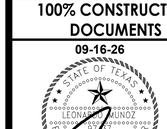
CAVAZOS ARCHITECTS
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memo@cavazosarch.com

LC Executive Conference Center - Catering Staging Addition

Laredo College
1 West End Washington St.
Laredo, TX 78040

100% CONSTRUCTION DOCUMENTS

09-16-26



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No.	Description	Date

KEY PLAN

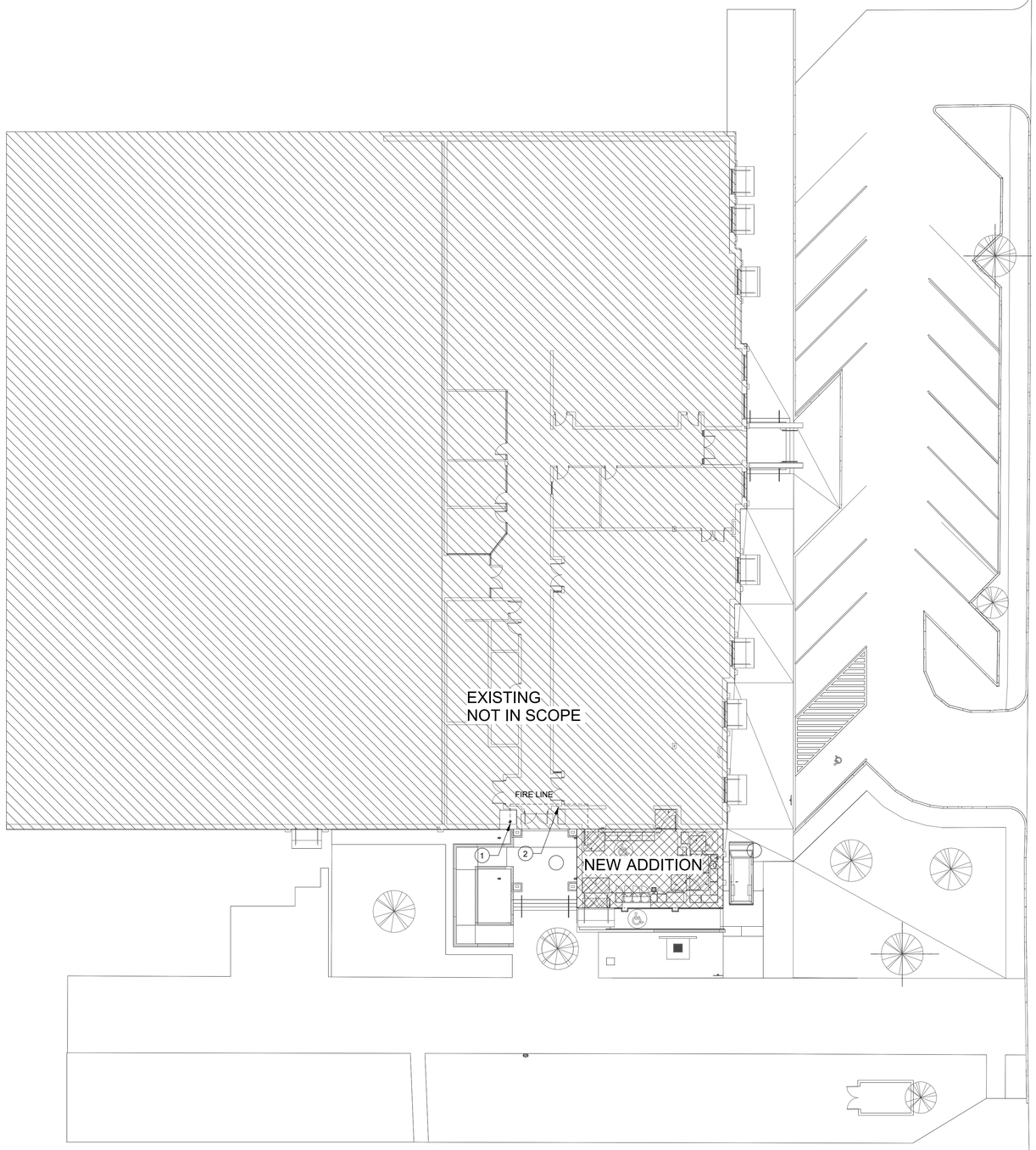
PLUMBING DETAILS

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

P-300

Scale: 1" = 10'-0"

Cloud Models:/LC Falcon Conf. Room Catering Kitchen/W.2026.04.10.005_LC Falcon Conf Room Catering Kitchen_CLOUD_MEP.rvt
9/22/2026 9:13:07 AM



1 FIRE PROTECTION SITE PLAN
1/16" = 1'-0"

GENERAL NOTES - FIRE PROTECTION

A. SYSTEM TO BE DESIGNED TO MEET ALL LATEST NFPA CODES. OKANS SHALL BE SUBMITTED TO THE CITY OF LAREDO FOR REVIEW AND APPROVAL. FIRE MARSHAL TO BE THE FINAL APPROVING AUTHORITY FOR ALL FIRE PROTECTION WORK..

B. SEAL ALL WALL OPENING W/ MORTAR OR FIRE CAULKING.

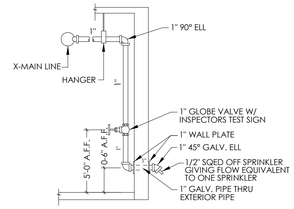
C. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE ARCHITECTURAL DOCUMENTS TO DETERMINE THE COMPLETE SCOPE OF WORK.

D. WHERE EQUIPMENT IS INDICATED OR REQUIRED TO BE REMOVED, THE ASSOCIATED SERVIES SHALL BE CAPPED AT A CONCEALED LOCATION.

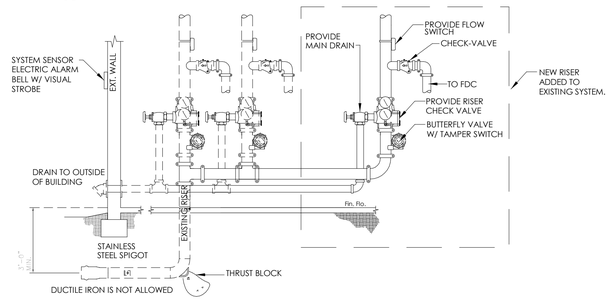
E. NO FIRE SPRINKLER PIPING TO RUN OVER ELECTRICAL EQUIPMENT, IT ROOM AND ANY OTHER SYSTEM THAT MAY BE DAMAGED FROM WATER LEAK..

FIRE PROTECTION KEYED NOTES

	<varies>
1	FIRE SPRINKLER SYSTER RISER SHALL BE ADDED TO EXISTING RISER. NEW FIRE SPRINKLER LINE TO CONNECT TO EXISTING RISER. SEE DETAIL 3/FP-100.
2	FIRE SPINKLER LINE TO BE ABOVE CEILING. FIRE SPRIKLER LINE TO BE SUPPORTED CLOSE TO UNDERSIDE OF STRUCTURE.



2 INSPECTOR'S TEST DETAIL
NTS



3 RISER ROOM DETAIL
NTS

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LC Executive Conference Center - Catering Staging Addition

Laredo College
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100% CONSTRUCTION DOCUMENTS

09-16-26

STATE OF TEXAS
LEONARDO TRINOZ
103727
REGISTERED
ENGINEER

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No.	Description	Date

KEY PLAN

FIRE PROTECTION SITE PLAN

Drawn by:	Author
Checked by:	Checker
Project number:	25-14
Project Issue Date:	09-16-26

FP-100

Scale: As indicated

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